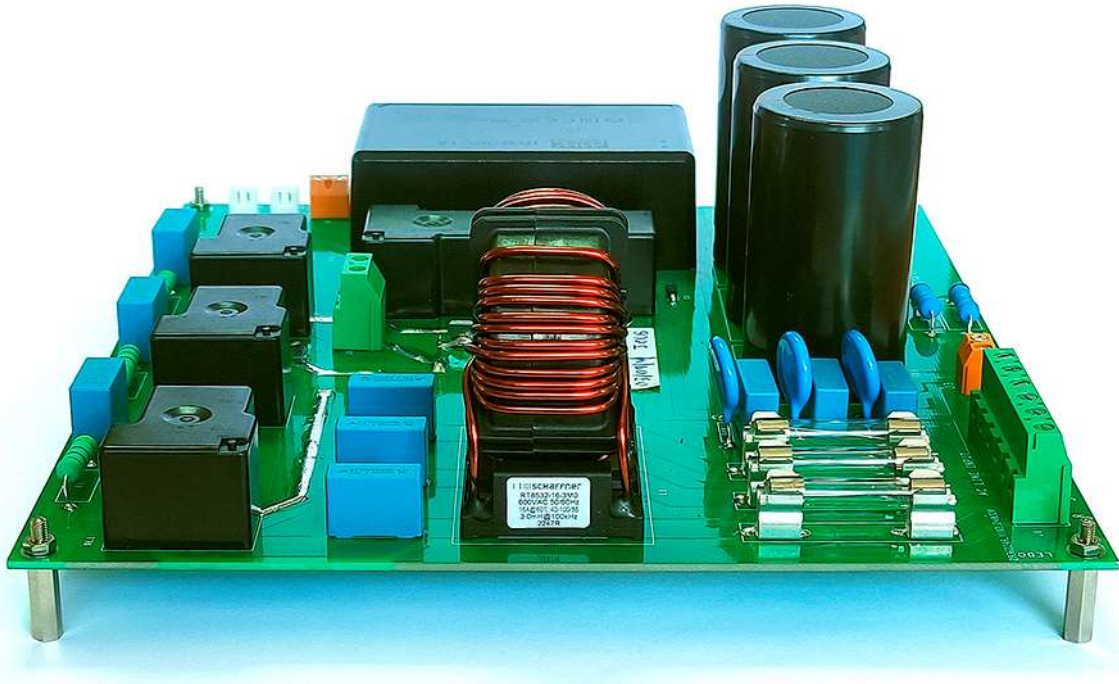


15KW AC-DC CONVERSION MODULE

Le-ACDC-15KW-2



- **Three-phase rectifier with capacitive filter and integrated automatic**
- **Three-phase input voltage 220V AC...400V AC**
- **Maximum output current 30 A**
- **Soft start with external resistor**
- **Integrated 12V DC 90W power supply**
- **Integrated EMI filter**
- **Fuse protection**

The module consists of a three-phase rectifier bridge with input EMI filter and output capacitive filter, and the switching elements necessary for its integration in any real application.

It has input contactors in each phase, which allow the total disconnection of the circuit from the network, while the power relay used at the output guarantees a soft start, by charging the capacitor bank through an external resistor R, which must be connected to J5. The resistance and power of R depend on the power of the load and the parameters of the thermal magnet present in the installation.

The rectifier bridge used has a nominal current of 35 A, but the maximum output current of the module is 30 A, limited by the width of the printed circuit tracks.

The module can be used in a single-phase network, but in this case the maximum working power does not exceed 6 kW at 230V AC.

The capacitor bank accumulates considerable energy, which takes about five minutes to dissipate, so care must be taken when handling the module during installation, service and repair.

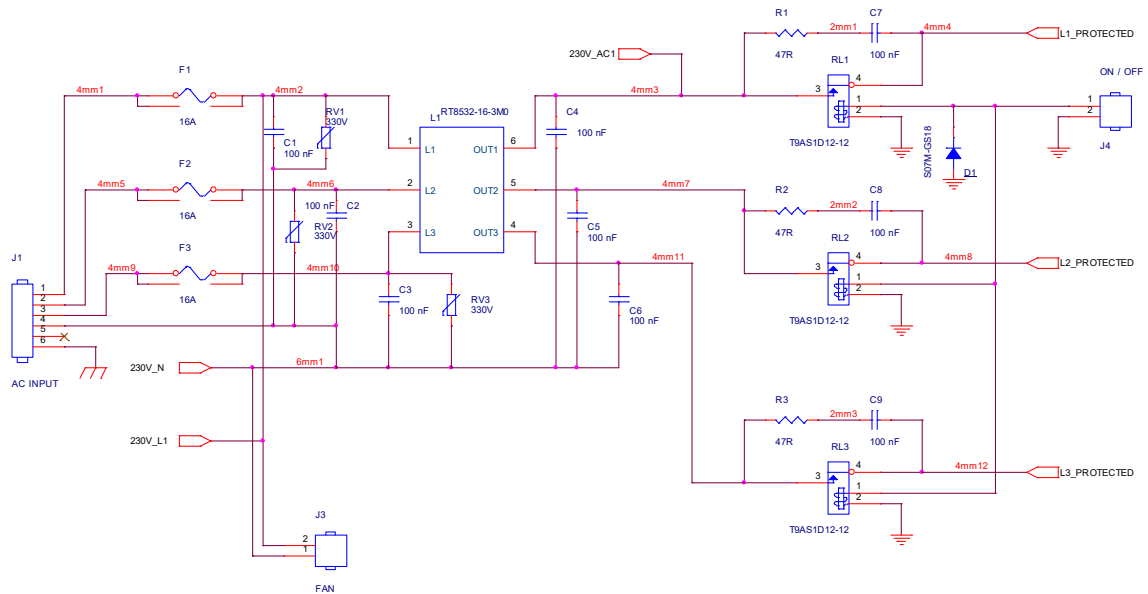


Fig.1. Power input circuit.

The coils of the switching elements have a voltage of 12V DC, and must be operated from the control module.

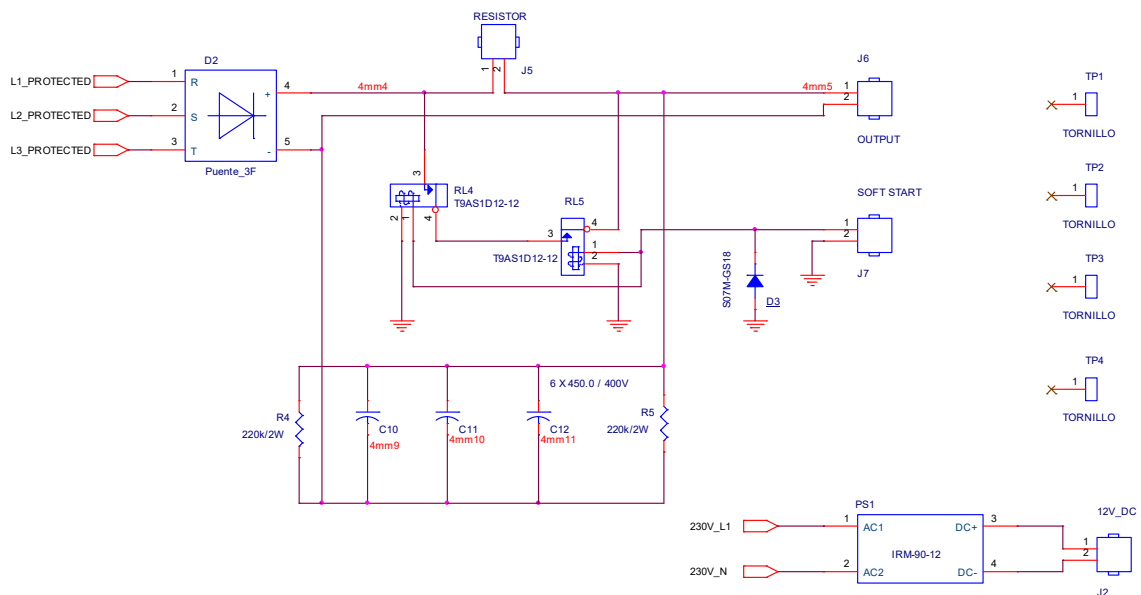


Fig.2. Rectifier output circuit.

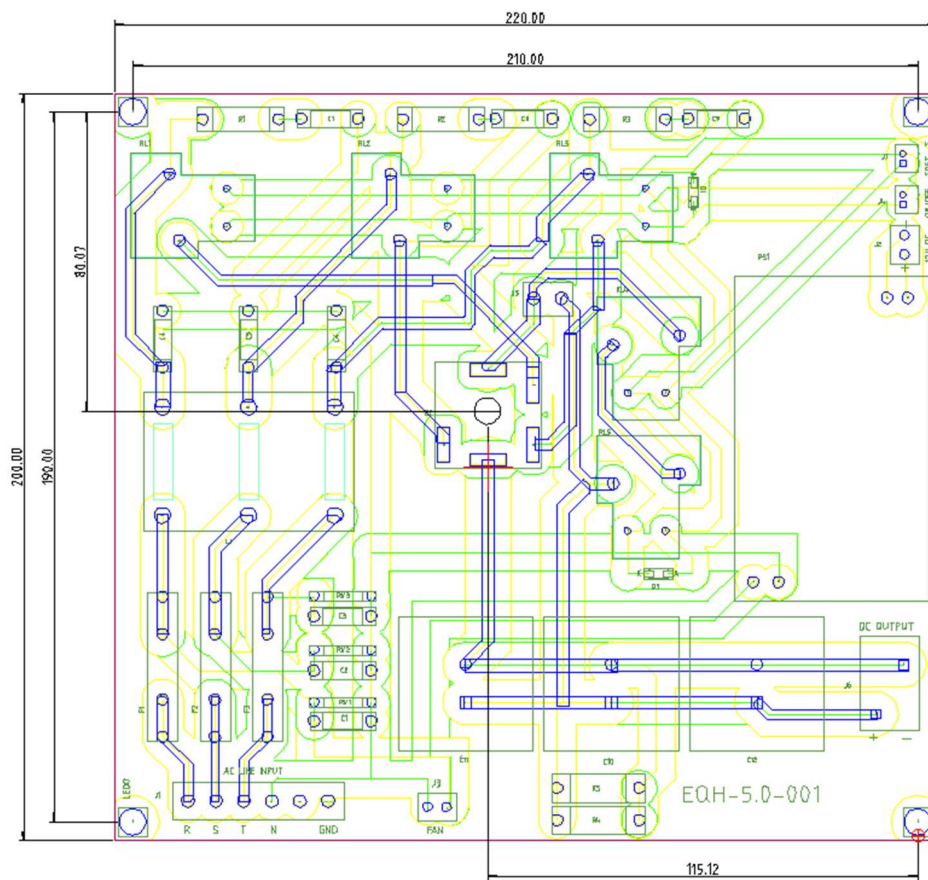


Fig.3. Module outline.