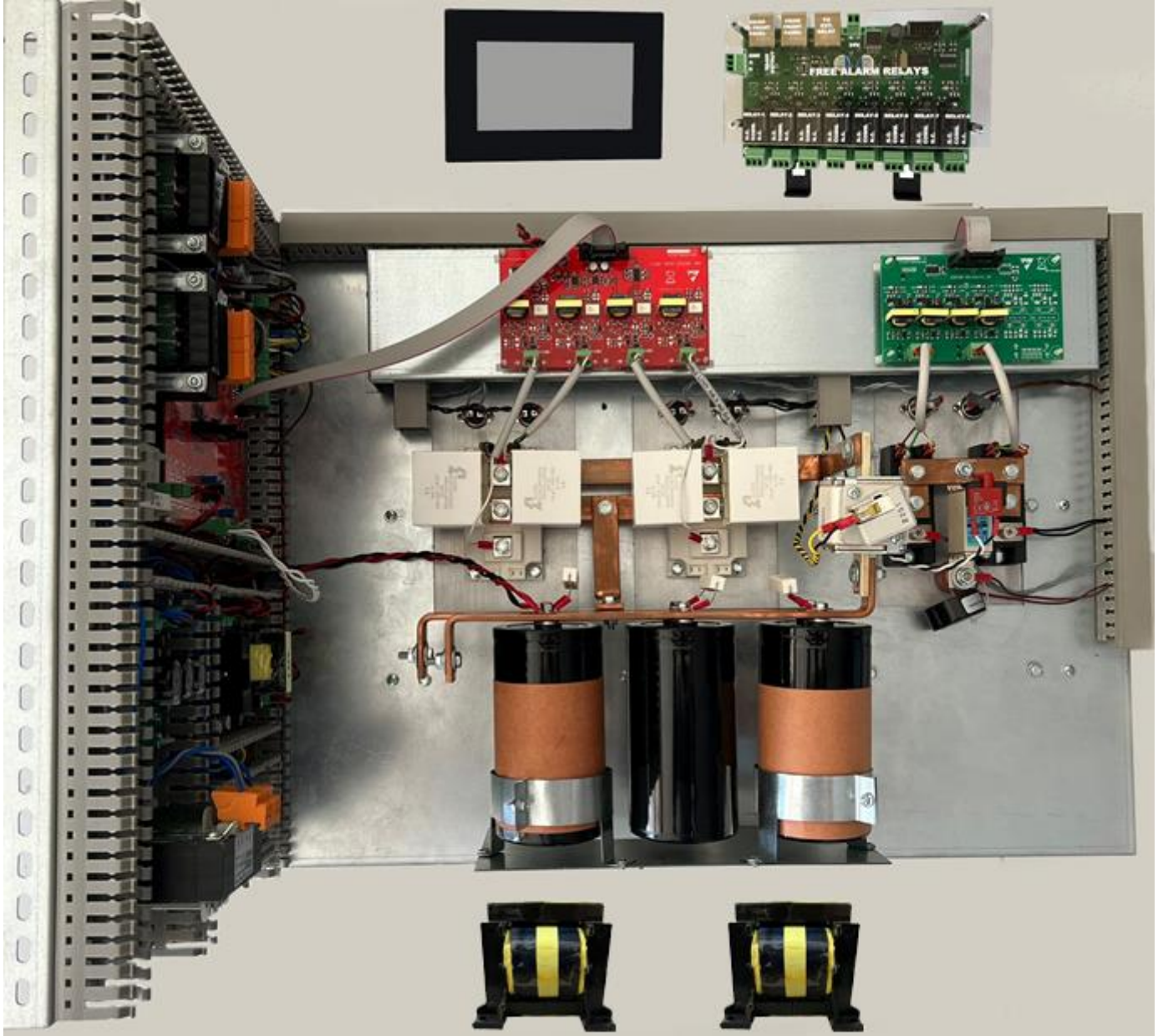


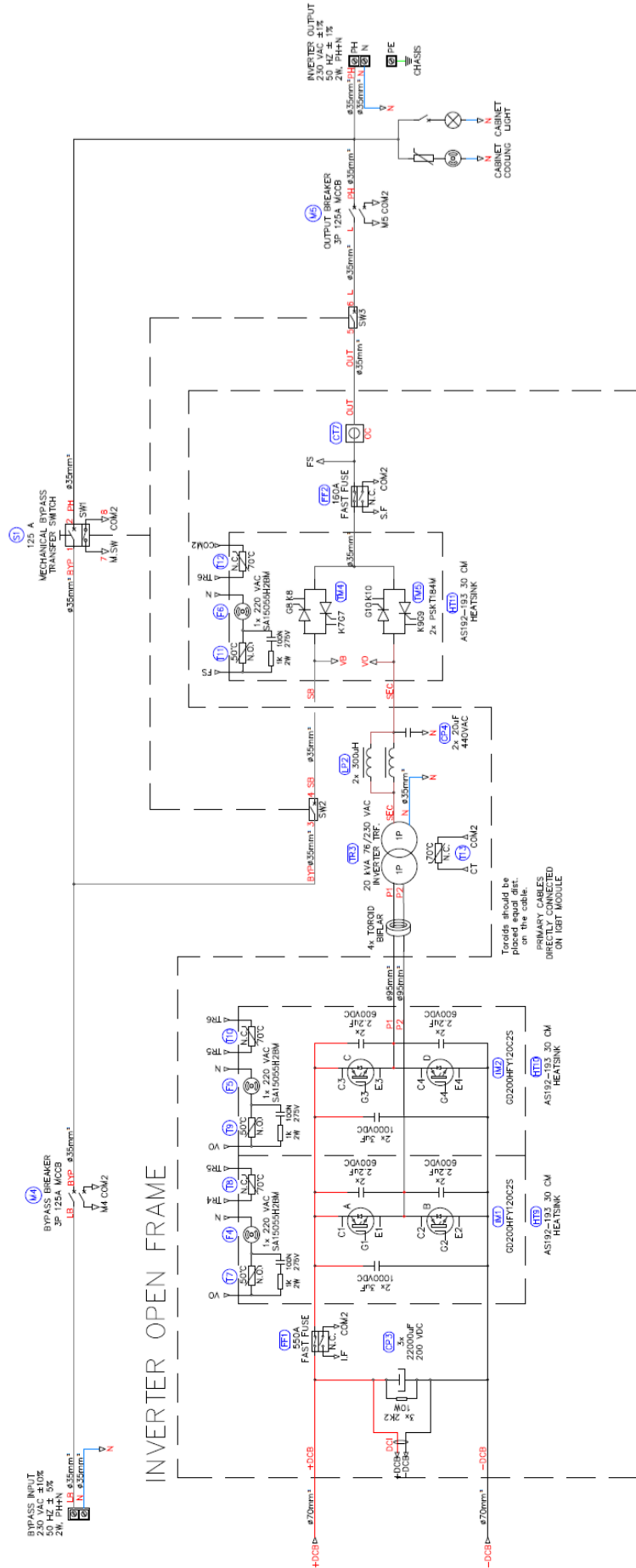
## Quick Installation Guide for PESS Open Frame Devices

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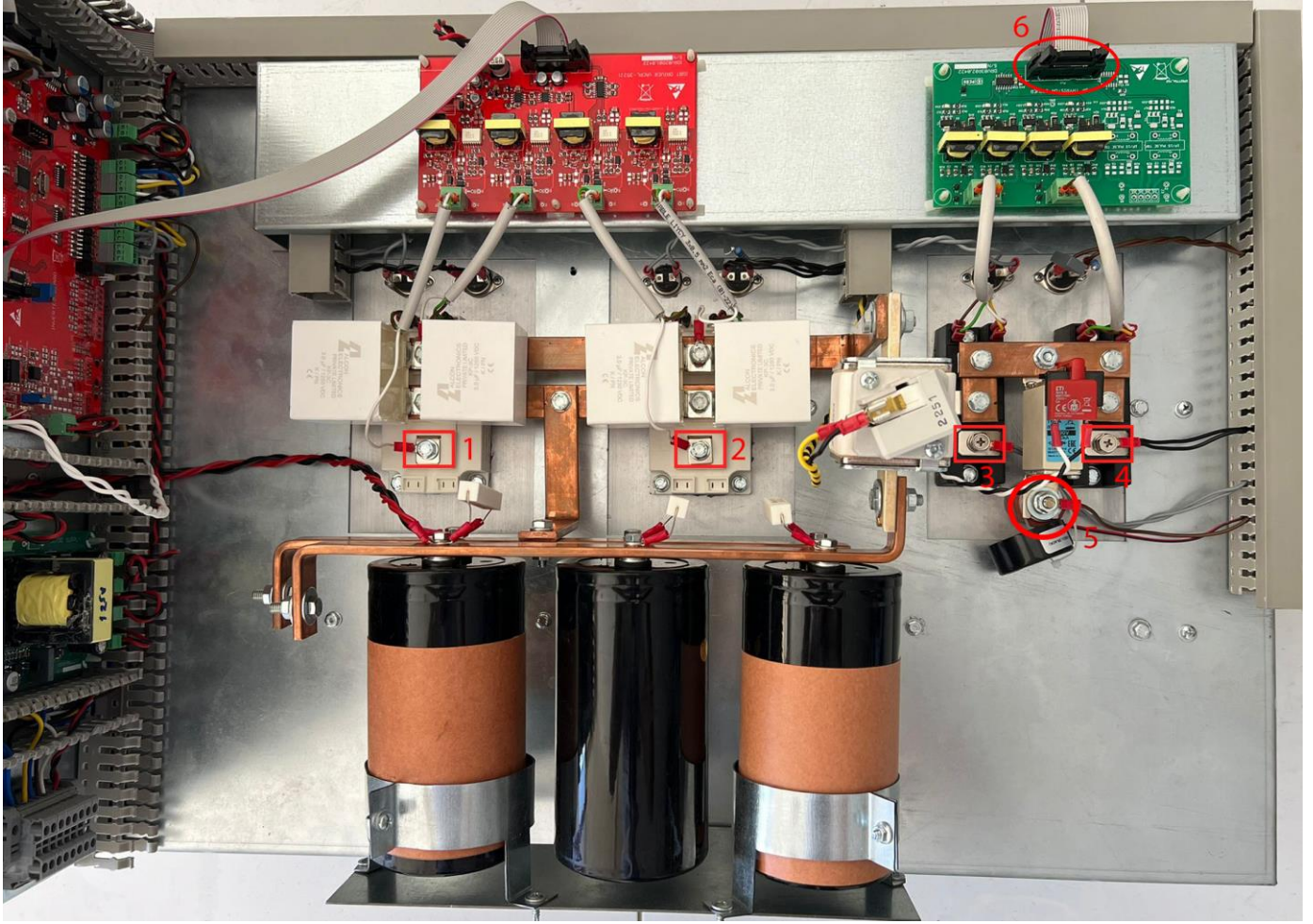


## 1. Table for Required Component

<b>Components Supplied From PESS</b>	<b>Other Required Components</b>
Open frame inverter device	Inverter transformer
Touch Screen Panel	Inverter output capacitor
Free alarm relay board	Circuit breaker
2x Inverter Output Inductor	Inverter cabinet
Mechanical bypass transfer switch	Cabinet cooling and lightning (optional)

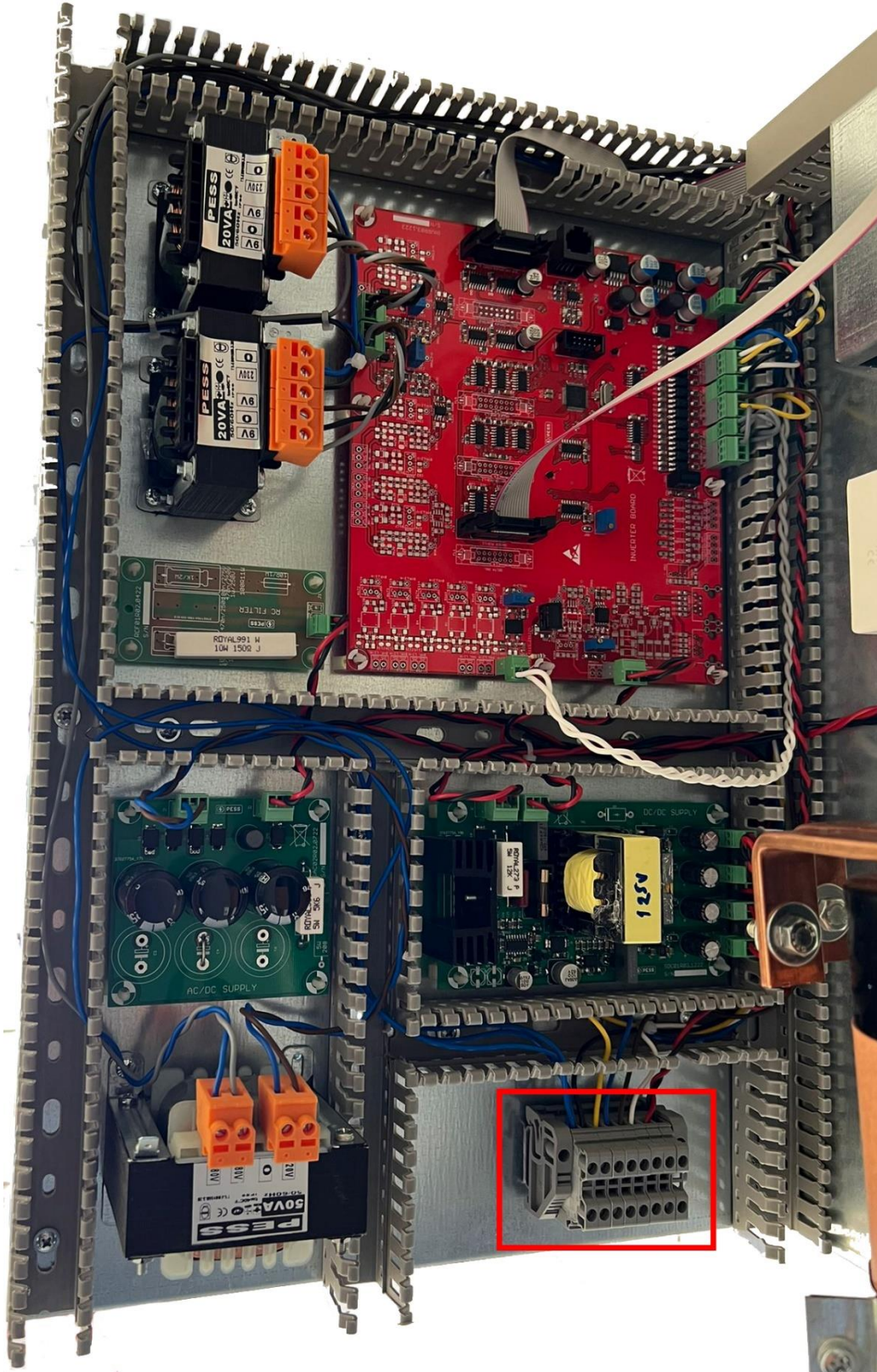


## 2. Connection Points



**Figure 1 High Power Cable Connection Points**





**Figure 2 Low Power Signal Cable Connection Points**

### 3. Cabling Description

**Never energize the device before reading the turn-on process in heading 4. Otherwise, it may cause permanent damage !**

Figure 1 shows high power cable connection points. Terminal 1 and 2 marked with a red rectangle in Figure 1 should be connected to the inverter primary terminals.

- This cable should be twisted pair.
- Four piece troid equally should be placed on the cable.
- This cable should be short as possible as for the best performance.
- When connecting the main power cables to the IGBT module, make sure that the white thin cable used for IGBT Fail detection is placed above the main power cable and that it is not damaged during the tightening process.
- If you forget to connect the white thin cable used for IGBT fail detection, the device will not work properly.

Terminal 3 is the static bypass input. Connect the live phase cable coming from the static bypass line to terminal 3. Sure about the thyristor module it is not damaged during the tightening process.

The live cable coming from the secondary of the inverter transformer must be connected to terminal number 4 in Figure 1. Sure about the thyristor module it is not damaged during the tightening process.

Terminal number 5 shows the output of the inverter.

- When connecting the output cable to this point, do not forget to pass this cable through the current transformer.
- Do not forget to reconnect the brown output feedback cable. This cable should be above the main power cable.
- When tightening the bolts, be careful not to damage the thyristor module and the thin feedback cable.

Other high power cables should be connected according to the schematic.

Figure 2 shows electronic control side of the inverter device. In this section, it is sufficient to connect only to the terminals marked with a red rectangle. Except from this, no changes should be made to the electronic control cables.

Figure 3 shows the pinout of the ground terminal block in the inverter control block. The cable to be used for neutral must be at least 1.5 mm<sup>2</sup>. Other electronic control cables can be 0.5 mm<sup>2</sup>.

