



STEVAL-ISA015V2

3-phase power supply evaluation board with ESBT[®] (100 W)

Data Brief

Features

- Input voltage: 400 V_{AC} +/- 20%
- Output power: 100 W
- High efficiency (90%)
- Switching frequency: 50-85 kHz
- Safety compliant in accordance with EN60950

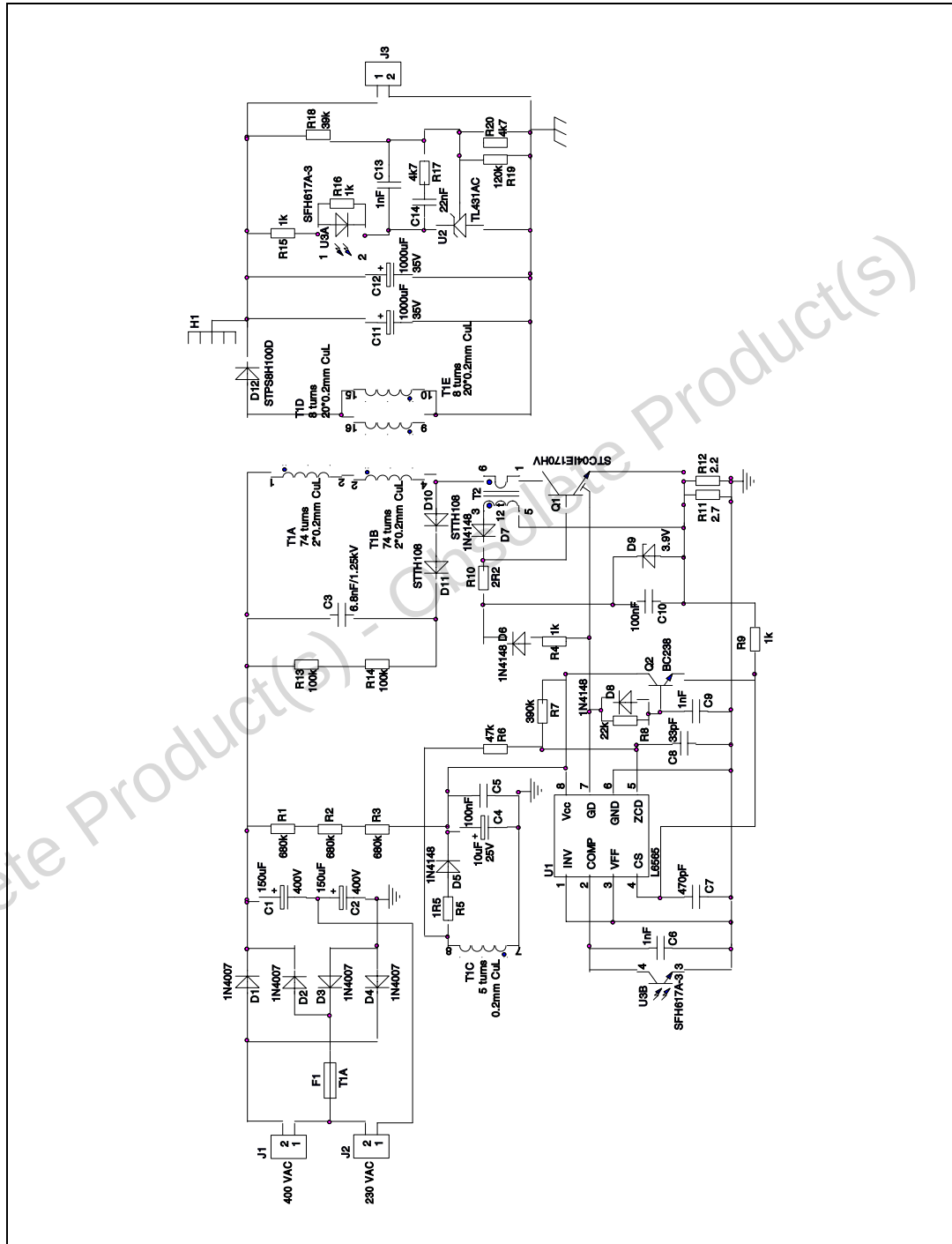
Description

This is a dedicated evaluation board using emitter switched bipolar transistors (ESBTs) featuring the high-power, wide input range requirement of the highly demanding industrial market. The maximum output power is 100 W. The need to handle both high output power and wide input voltage leads to the design of a flyback topology. The flyback converter is a popular choice in applications where the required power is normally less than 200 W. The main reasons for its popularity are its simplicity, low cost and high efficiency despite a small number of active components. This evaluation board provides a solution for a power supply solution for 3-phase applications such as inverters for induction motors, welding machines, and UPS.



1 Board schematic

Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
29-Nov-2007	1	Initial release

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