



STEVAL-ISA031V1

Demonstration board for 40 W auxiliary 3-phase power supply
based on the L6565 and STW4N150

Data Brief

Features

- Input voltage range: 185 Vac to 460 Vac
- Input frequency range: 50/60 Hz
- Output voltage $V_{out1} = 24\text{ V}$ @ $I_{out1} = 1.7\text{ A}$
- Output voltage $V_{out2} = 5\text{ V}$ @ $I_{out2} = 1\text{ A}$
- Total output power 40 W
- Safety: EN60950
- EMI: EN55014

Description

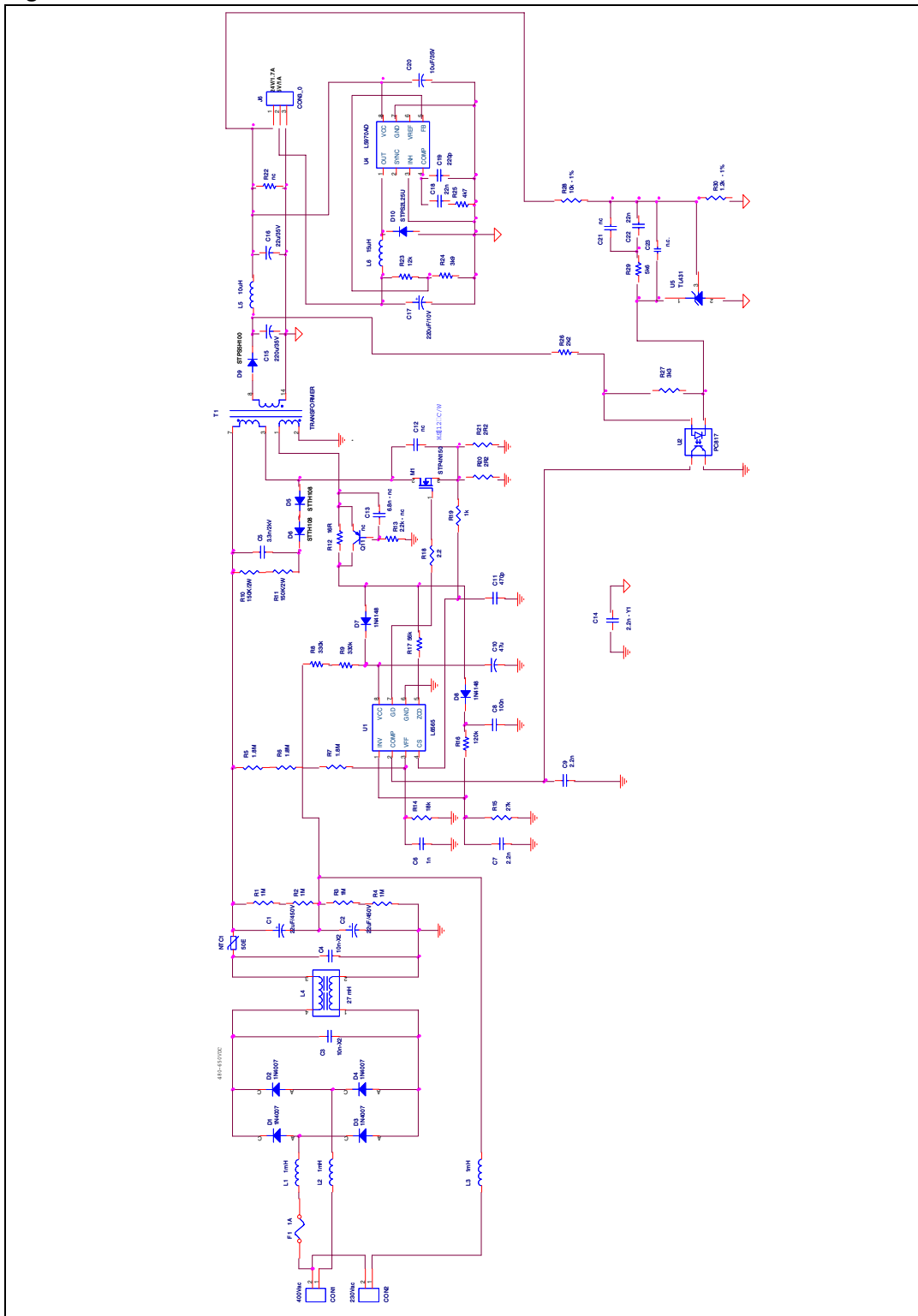
This demonstration board introduces a solution for industrial power supplies fed by a 3-phase mains supply. It takes advantage of the high voltage MOSFET (1500 V breakdown voltage) to optimize the operation of the quasi-resonant flyback converter based on the primary controller L6565. The demonstration board has been designed and developed to address low power applications. The board features two outputs, 24 V and 5 V, and is able to deliver more than 40 W. The 5 V output is obtained using an integrated DC-DC converter based on L5970AD, connected on the 24 V output.



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Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
21-Nov-2008	1	Initial release.

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