STEVAL-ILL004V2

Phase control dimmer board based on Ultralite Micro with 8 pins

Data Brief

Features

- Power setting via potentiometer or button
- Three different load connections
- New family of TRIACs can be used
- Low current consumption (< 5 mA)
- Adjustable EMI filter compliant with: EN55014, EN55015, EN61000 3 2 (class A)
- Automatic detection of the 50 Hz or 60 Hz input mains

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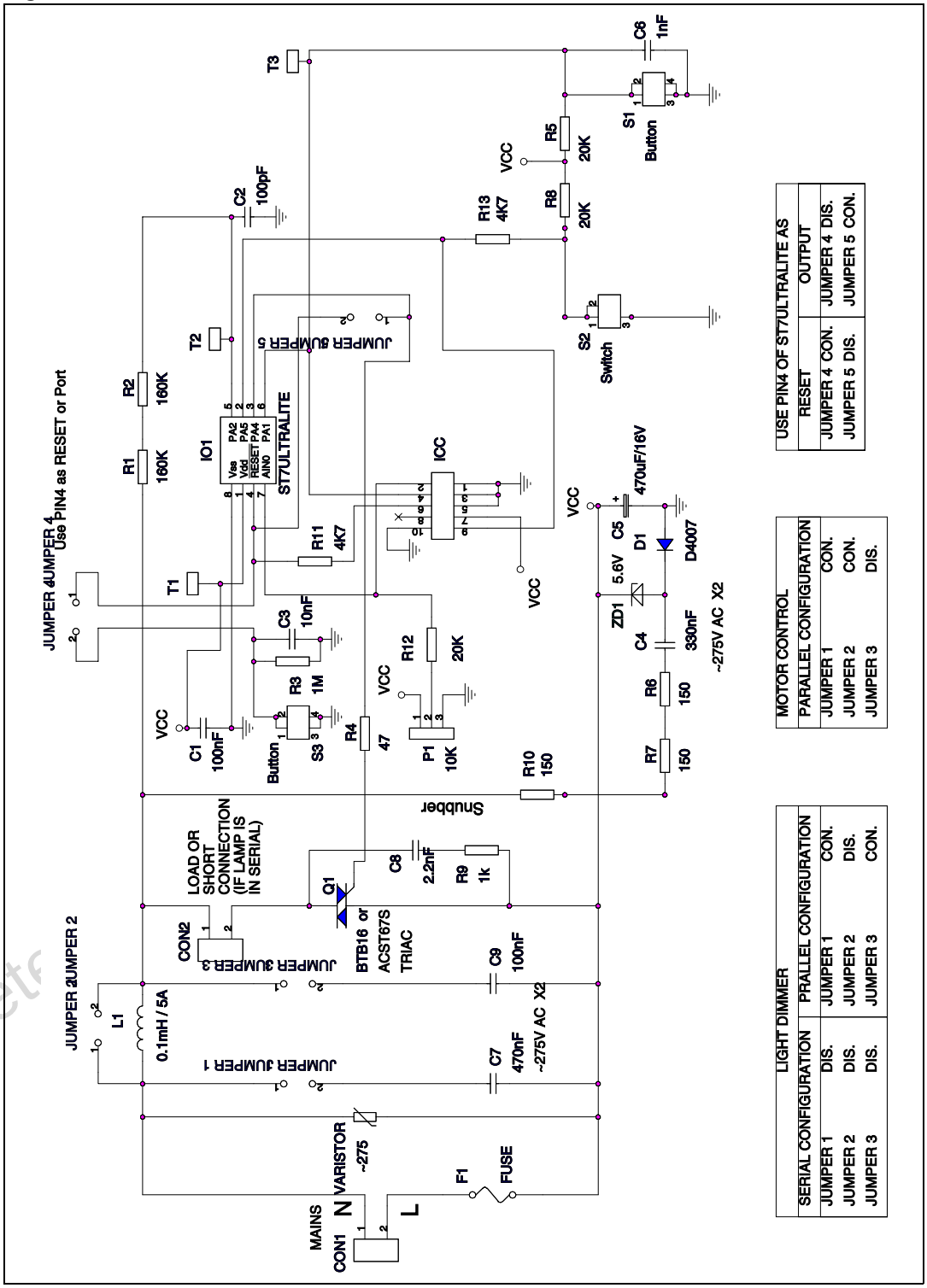
Description

This evaluation board is a traditional design solution for the control of a mono-phase motor or any AC load-based motor. The solution is based on phase-angle adjustment with a simple three-terminal AC circuit (TRIAC) and a microcontroller as a driver. These electronic devices are typically used in home appliances or in industrial applications, for various purposes such as motor regulation and light dimming.

1 Board schematic

Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
13-Nov-2007	1	Initial release

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