



Dual Phase Reg 25A

No100822



The device is based on a modern microcontroller and destined to a regulator of speed for a drill, a fan, a lighting regulator, a heater and other consumers supplied with power voltage to 230V.

Specifications of Dual Phase Reg 25A:

Phasal regulation to the power supply voltage

Maximum amperage 25A

Function of soft start

Selection in two levels of regulation

Voltiac separated port 5V for external switch between the two levels of regulation

LED indication for the level of regulation

LED indication for powered on power supply

Power supply voltage: 230V AC

Size: 75mm x 45mm

Attention!!!

During the installation and usage of the device it must be respected all the requirements for safety work with high voltage!

Description

- regulator of spinning for a drill, a fan, a lighting regulator, a heater and other consumers supplying with power voltage to 230V
- potentiometer **P1** for setting up the voltage for level 1 (**Level 1**)
- potentiometer **P2** for setting up the voltage for level 2 (**Level 2**)
- terminal **J1** – power supply voltage **230V AC** and load **RT**
- terminal **J2** – switch to level through external power supply voltage from **3.3V±5.5V DC**
- jumper **JP1** – selection of level for regulation
- jumper **JP2** – soft start mode

Indication:

- red LED **D3 (PWR)** – property and stabilized power supply voltage 5V
- green LED **D2 (LEVEL)** – it indicates the level for regulation

Power mode:

Soft start (jumper **JP2** at **1,2**):

- every change of primary power voltage is soft (speed for increasing of power voltage 70V/sec)

Fast start (jumper **JP2** at **2,3**):

- every change of primary power voltage is fast (without delay)

Level of regulation

- by jumper **JP1** (to terminal **J2** must NOT to have powered external power voltage)
 - Level 1 (without jumper **JP1**)
 - Level 2 (installed jumper **JP1**)
- by terminal **J2** (it is necessary **JP1** NOT to be installed)
 - Level 1 (by supplied 5V to terminal **J2**)
 - Level 2 (by supplied 0V to terminal **J2**)

Note: To switch on level through external electricity higher than **5.5V** it is necessary to be included additional resistor **Rx** as it is shown to the picture below:

- by **12V** – $R_x = 1k\Omega/0.25W$
- by **24V** – $R_x = 2.7k\Omega/0.25W$

As consumer has power bigger than 500W it is necessary the power element (the triac) to be installed on a suitable radiator.

Example Scheme of Device's Connection

