

## **Micro-Step-Control**

### *Step-Control Zero 2*



**Important Note !!**  
**Do not open the motor cables during machine operation !!**

## **Description:**

The step control Zero 2 is a 4-channel micro-step-control.

2 channels are being used for the x-axis. We can also offer a 5 channel control if desired (e.g. for a rotation axis).

Operation power is fixed to 2.1 A, step precision is 1/8-step, which is according to 1600 steps/rotation.

If the machine is not in operation power is being reduced to 65% with sleep function.

The control function is connected to one of the PC's printer ports. Via a 9-pole plug there is the option to connect 4 reference or stop-switch as well as an emergency stop switch. The emergency stop switch for control and machine is switched in a linear manner.

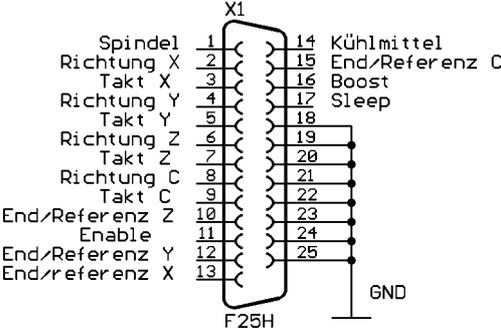
There is also the option to operate the switches via the main panel. You only need to consider that when operating the machine via the switches the actual programm activity needs to be switched off.

A powerpack of 32v/8A will provide sufficient energy for the step motor.

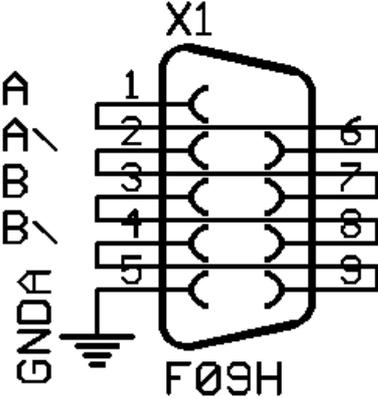
# External connections

## 1. Printer Port

Connecting the control to the printer port.

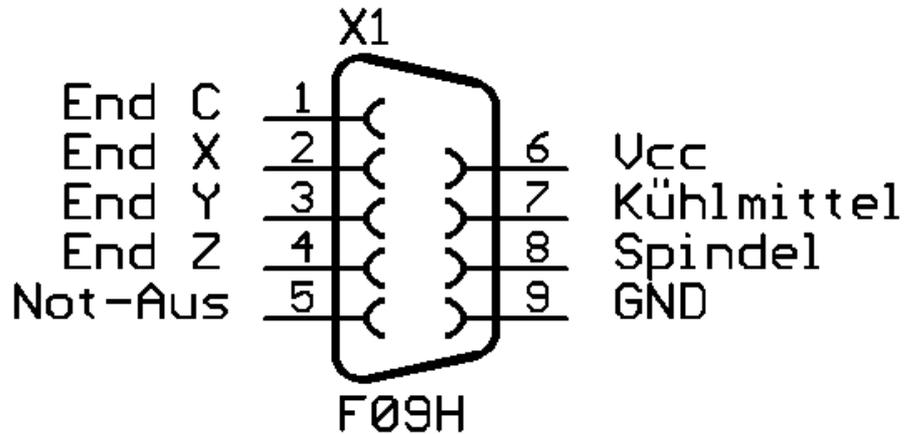


## 2. Motor Plug



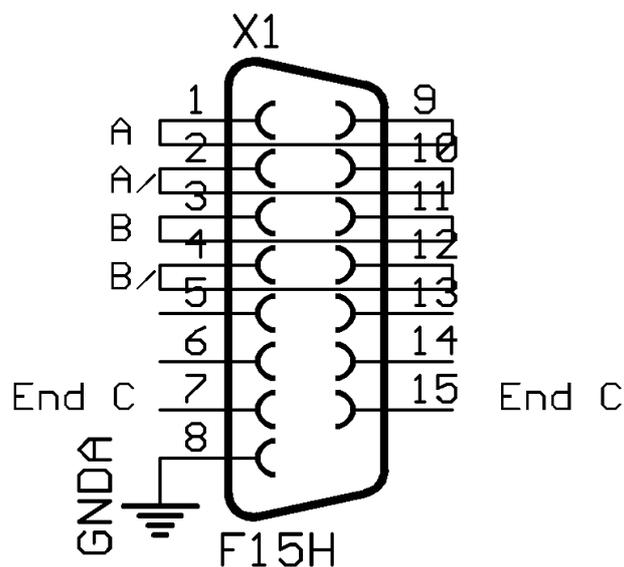
If the spin direction is wrong, all parameters can be changed via the software (e.g. WIN PCNC)

### 3. Control



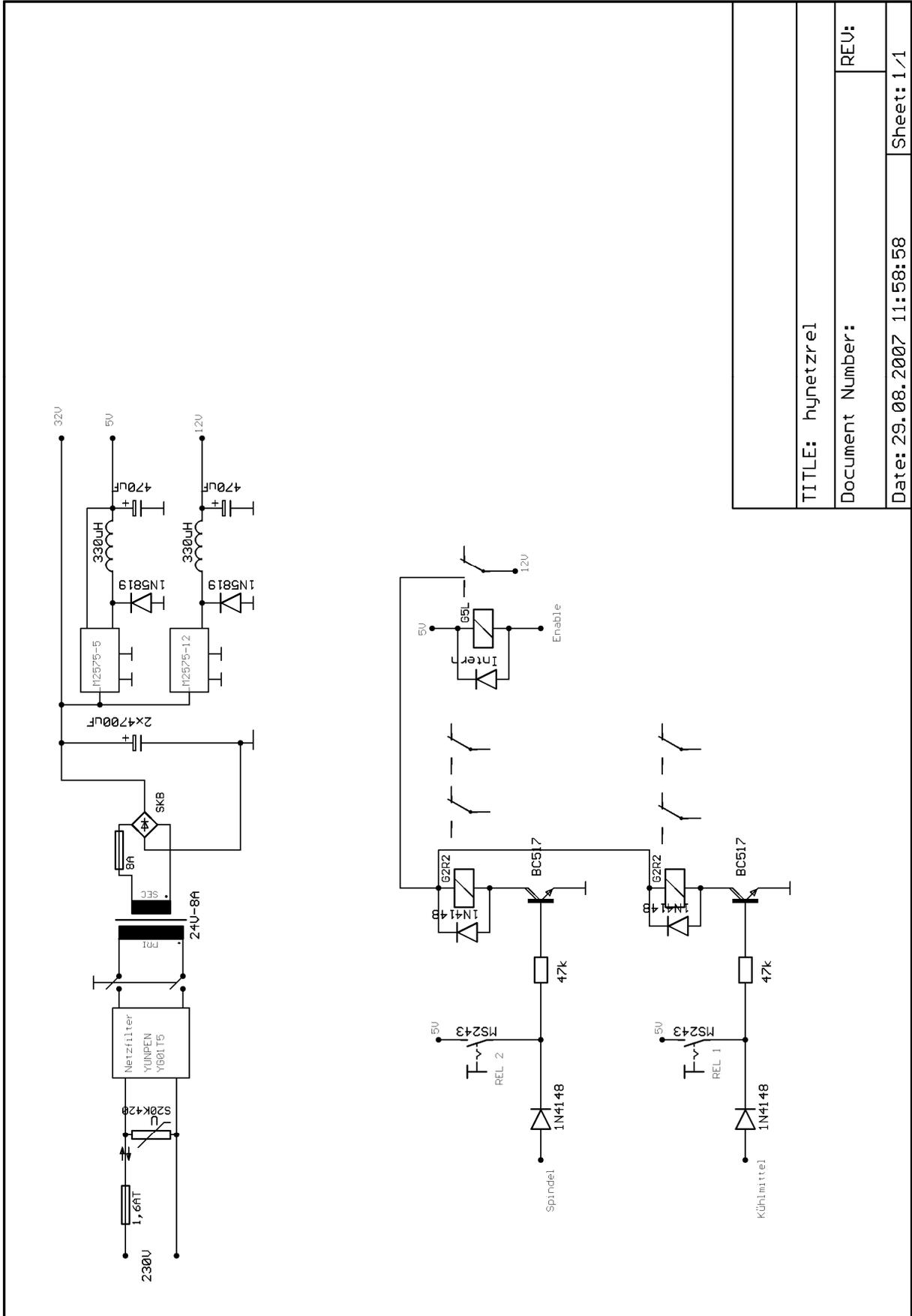
All signals are switched against GND. 'Emergency Stop' needs to be an opener. End switches and reference switches can be either opener oder closer. This needs to be configured via PCNC.

### 4. 5-Channel



End switch End C is identical to end switch End C at the connection ST

# supply voltage – switch diagram



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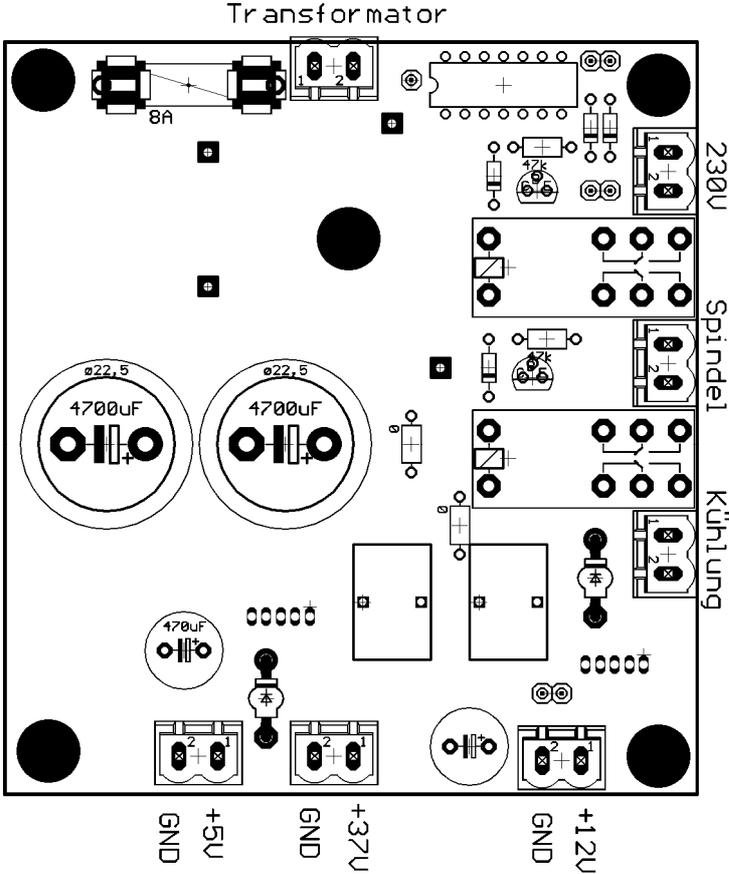
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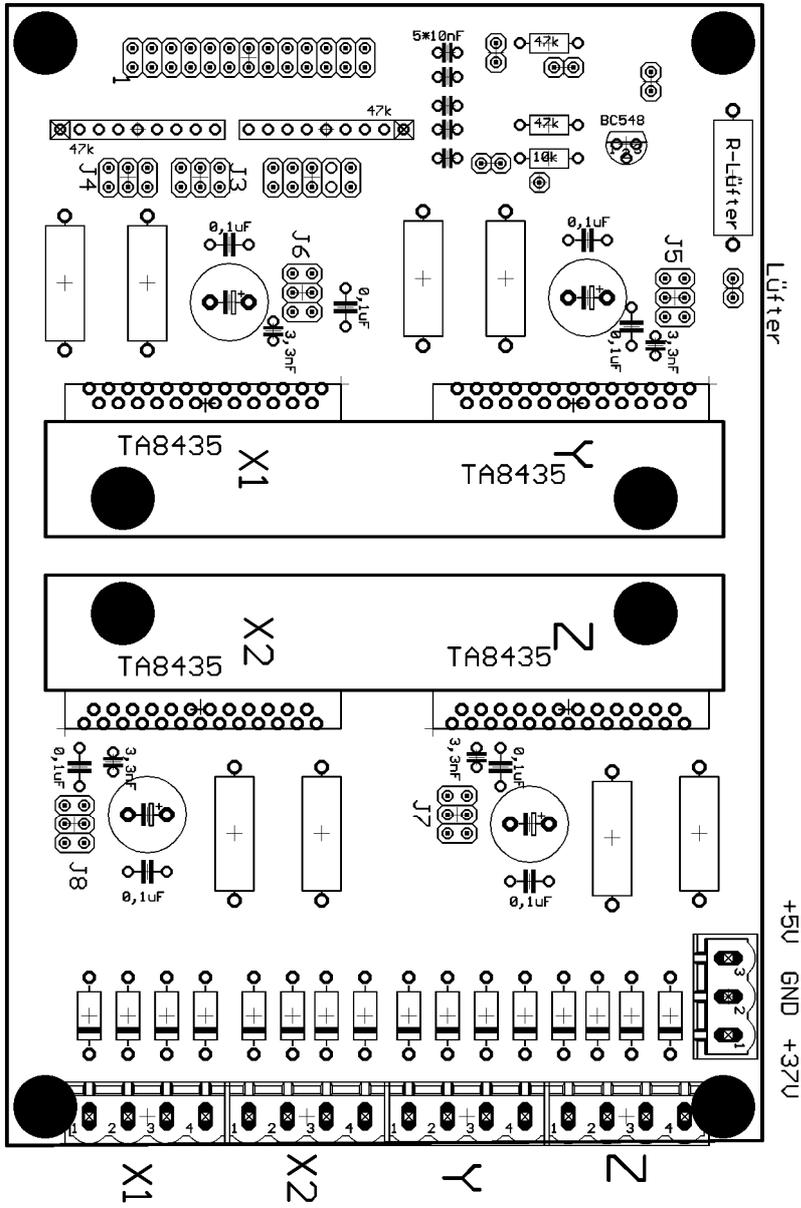
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# supply voltage – circuit board





# control circuit board



## Technical Data

power supply 230 V 220 VA

power supply for motors 32V 8 A

Start up control: Tact and direction signal

lean out: 4 channels 2,1A top figure 2,5A

lean out: 2 plugs each 8A power, together max 14A

Air supply: 1x60mm; 1x40mm

dimensions: 270x130x320 mm

Notes:

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If you do have any queries, please contact us:

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