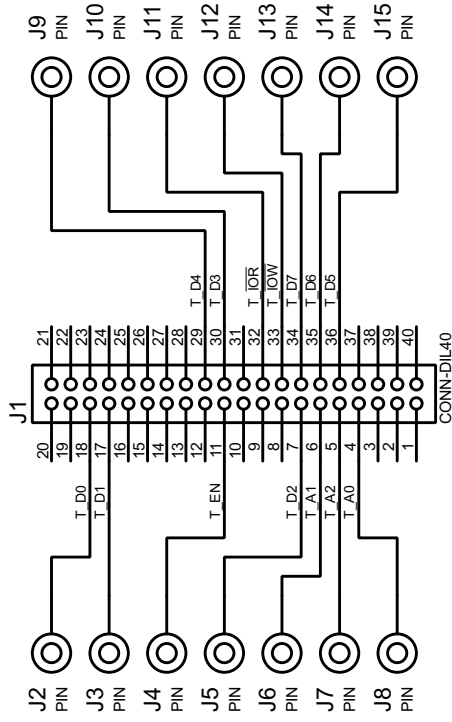


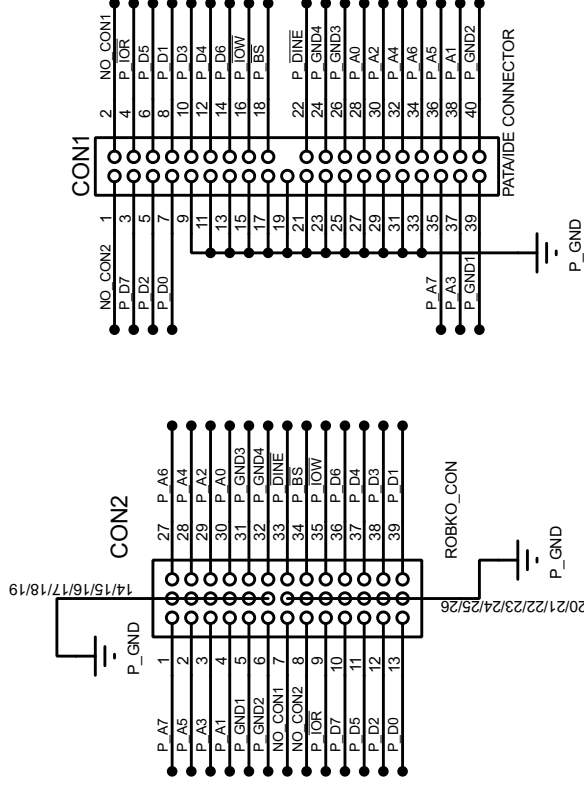
Board 1 - development connector

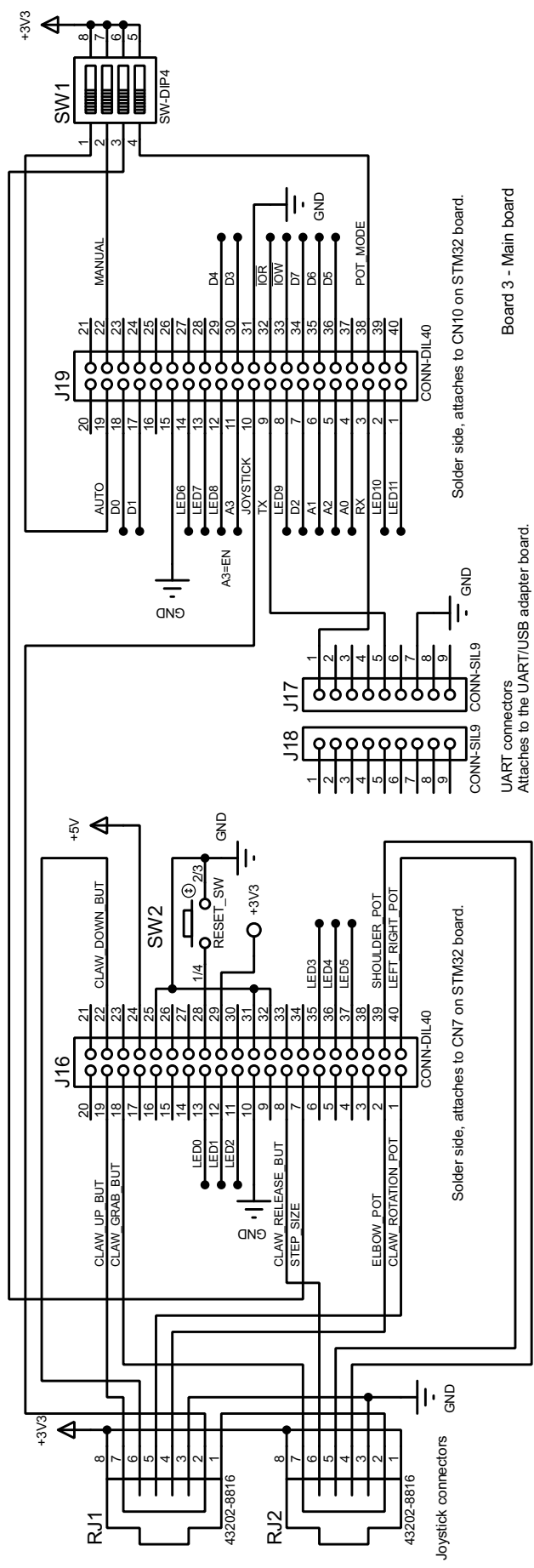
Connects only the essential signals.
A4-7 are connected to pull up/down resistors separately.
Attaches directly to CN10 on the STM32 board.
The wires from the original ROBK0-1 cable are soldered to J2-15.
The cable plugs into port B on ROBK0-1.
Used for early tests.



Board 2 - ROBKO/PATA adapter

Double-sided board. Plugs into port B on ROBKO-01.
Connects the PATA ribbon cable from the main board to ROBKO-01.
Can also be used for ROBKO-01's I/O port A.

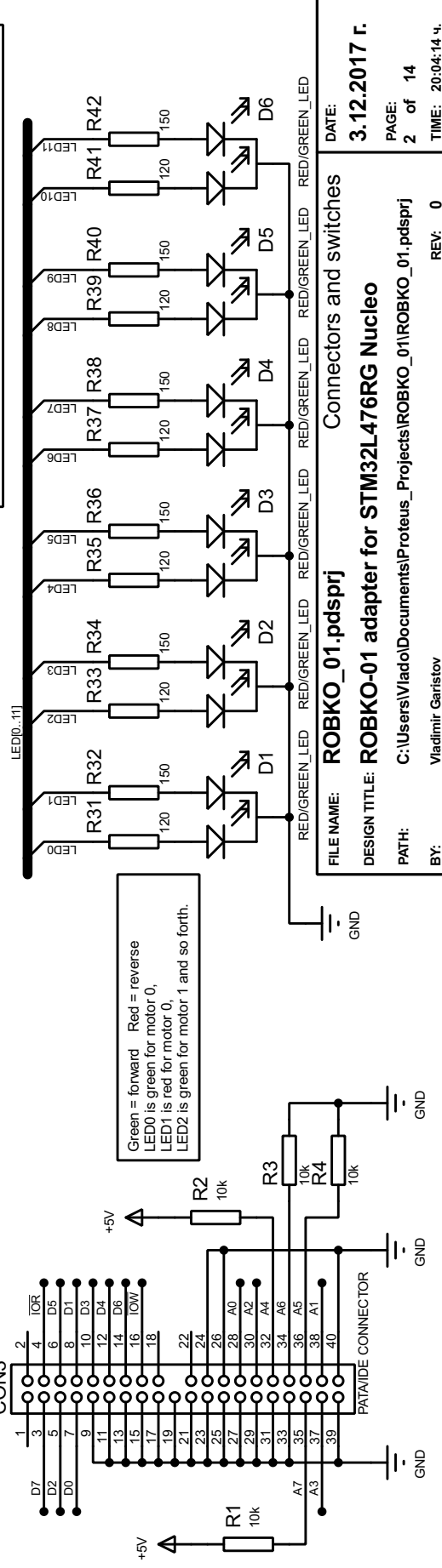




Acts as an adapter between the STM32 board and ROBKO-01.
Connects to two joysticks and a PC for control.
Includes +5V PSU, status lights and configuration switches.

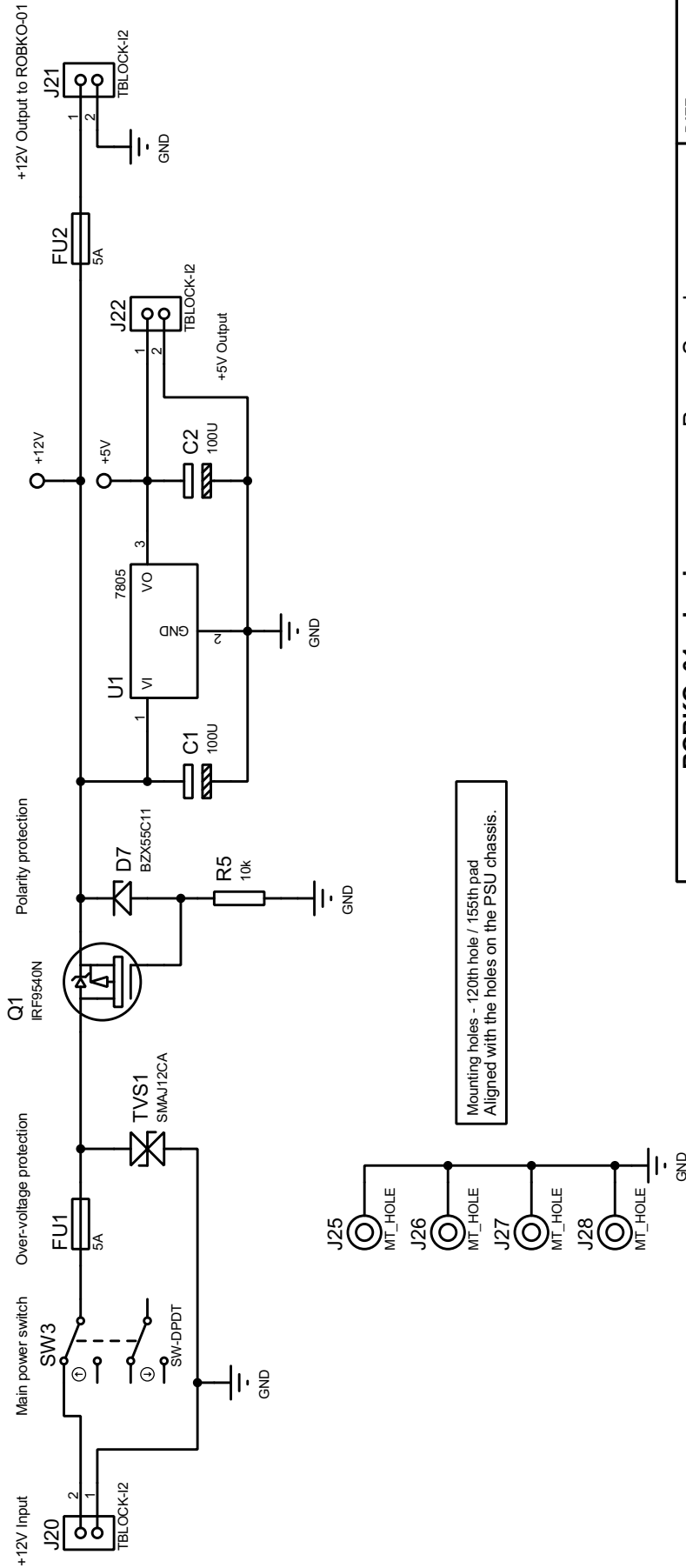
UART connectors
Attaches to the UART/USB adapter board.

Connector for PATA ribbon cable to ROBKO-01.



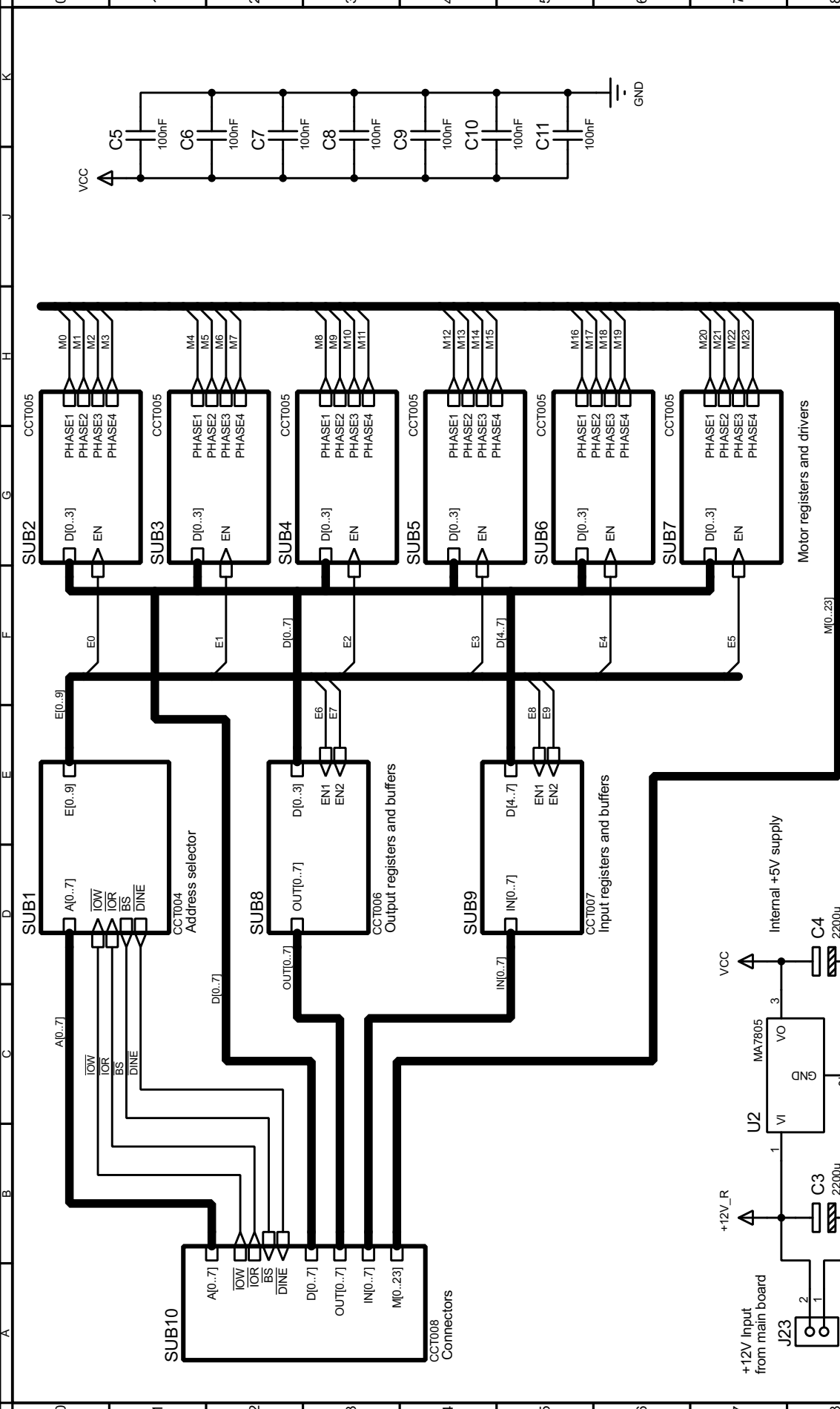
Power supply section of main board

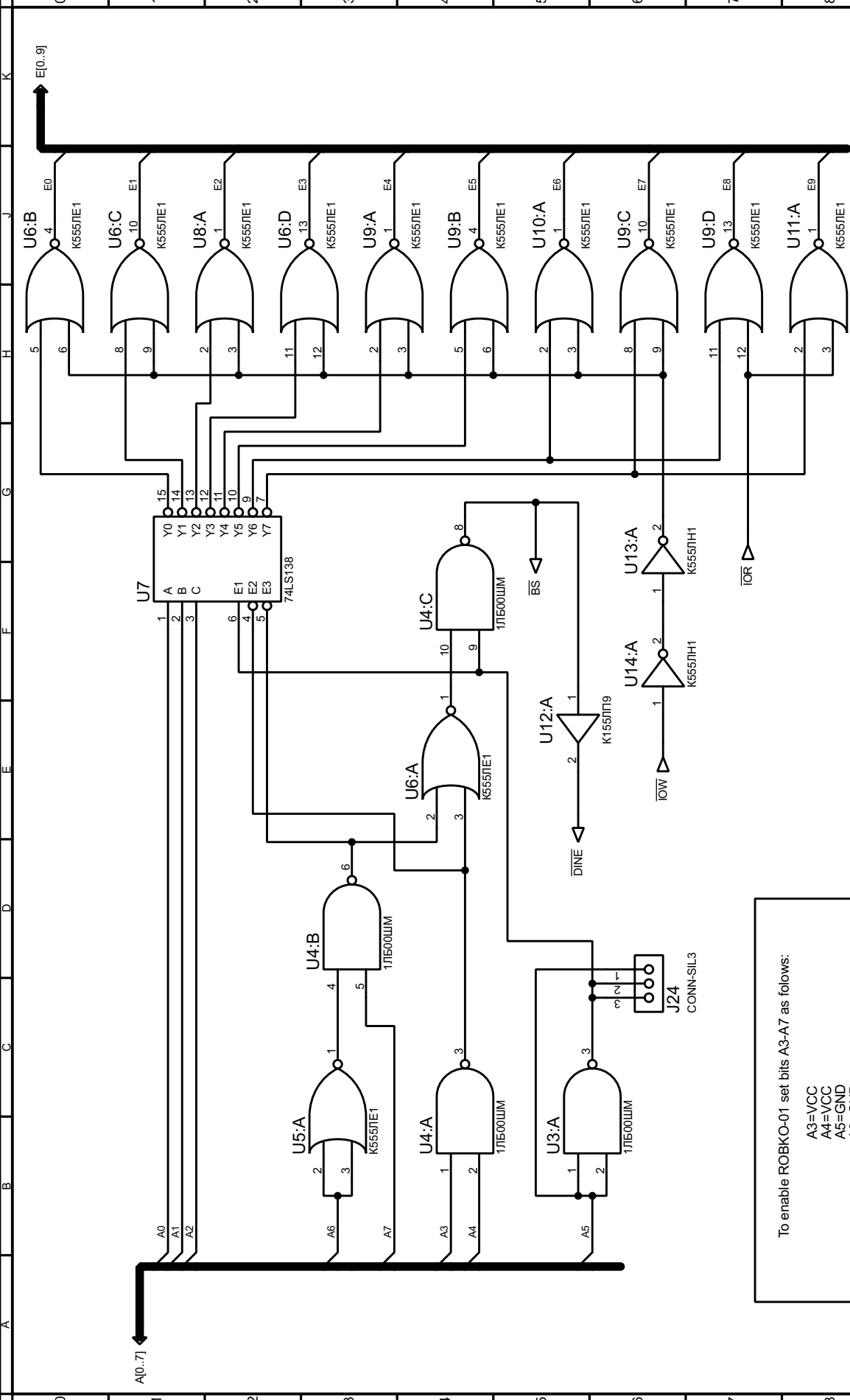
The minimum voltage to turn on the circuit is between 10.4V and 11.6V.
The overvoltage protection engages between 13.3V and 14.7V.
Both fuses are time-lag.
They trip after 150ms to 5s at 20A current.



Mounting holes - 120th hole / 155th pad
Aligned with the holes on the PSU chassis.

FILE NAME:	ROBKO_01.pdsprj	Power Supply	DATE:	3.12.2017 r.
DESIGN TITLE:	ROBKO-01 adapter for STM32L476RG Nucleo		PAGE:	3 of 14
PATH:	C:\Users\Vlad\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj		TIME:	20:04:14 ч.
BY:	Vladimir Garistov		REV:	0

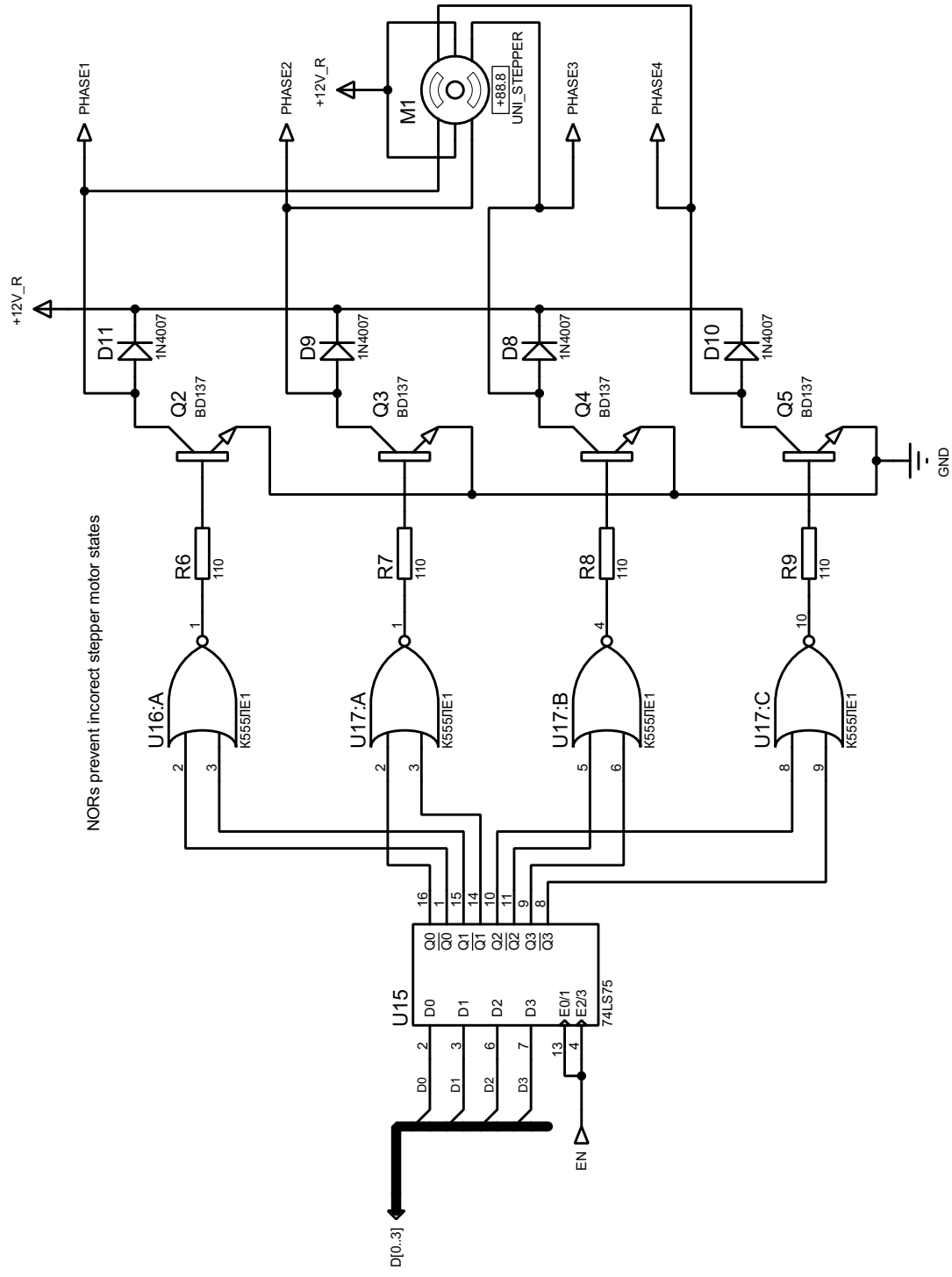




To enable ROBKO-01 set bits A3-A7 as follows:

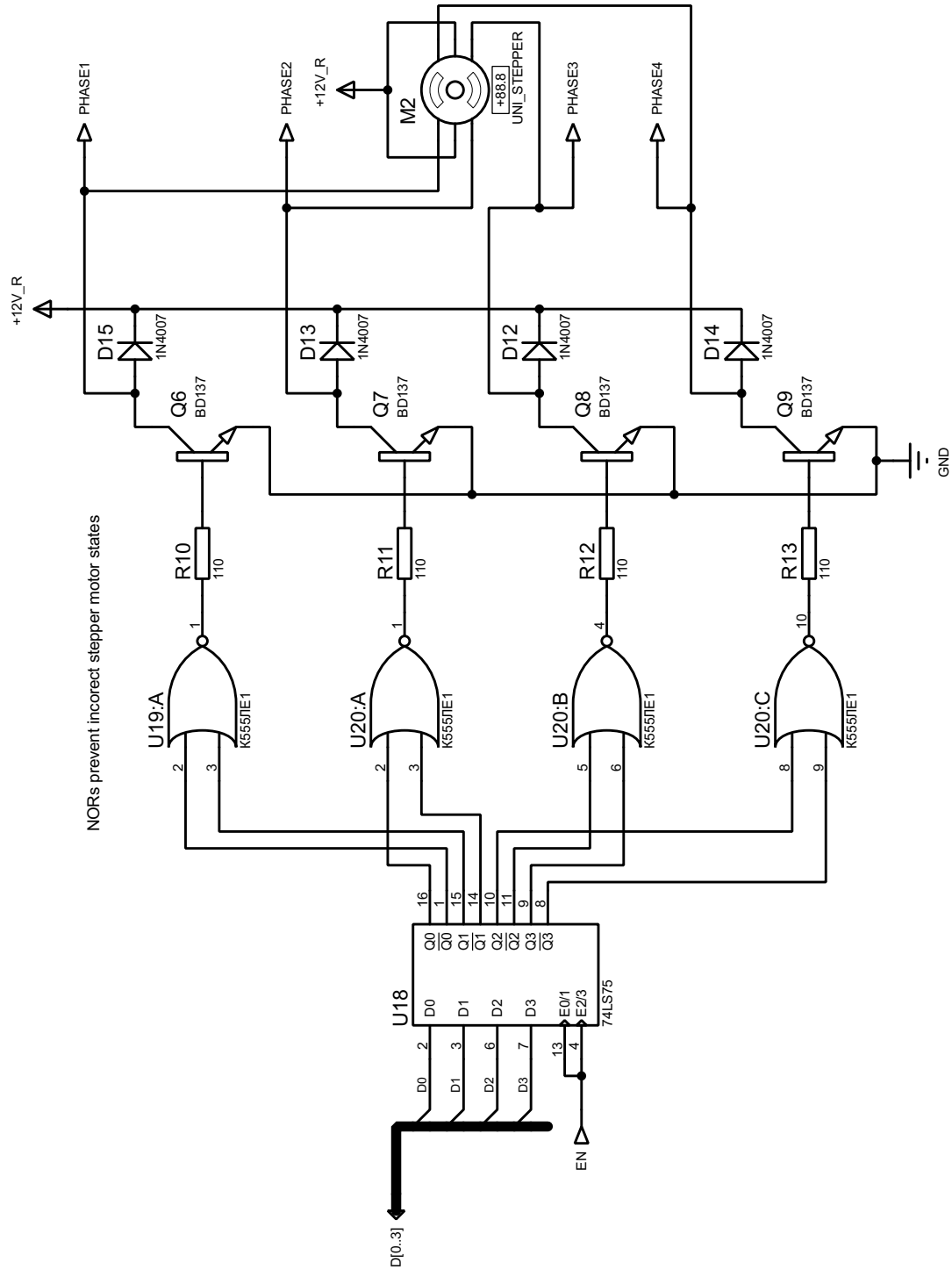
- A3=VCC
- A4=VCC
- A5=GND
- A6=GND
- A7=VCC

NORs prevent incorrect stepper motor states



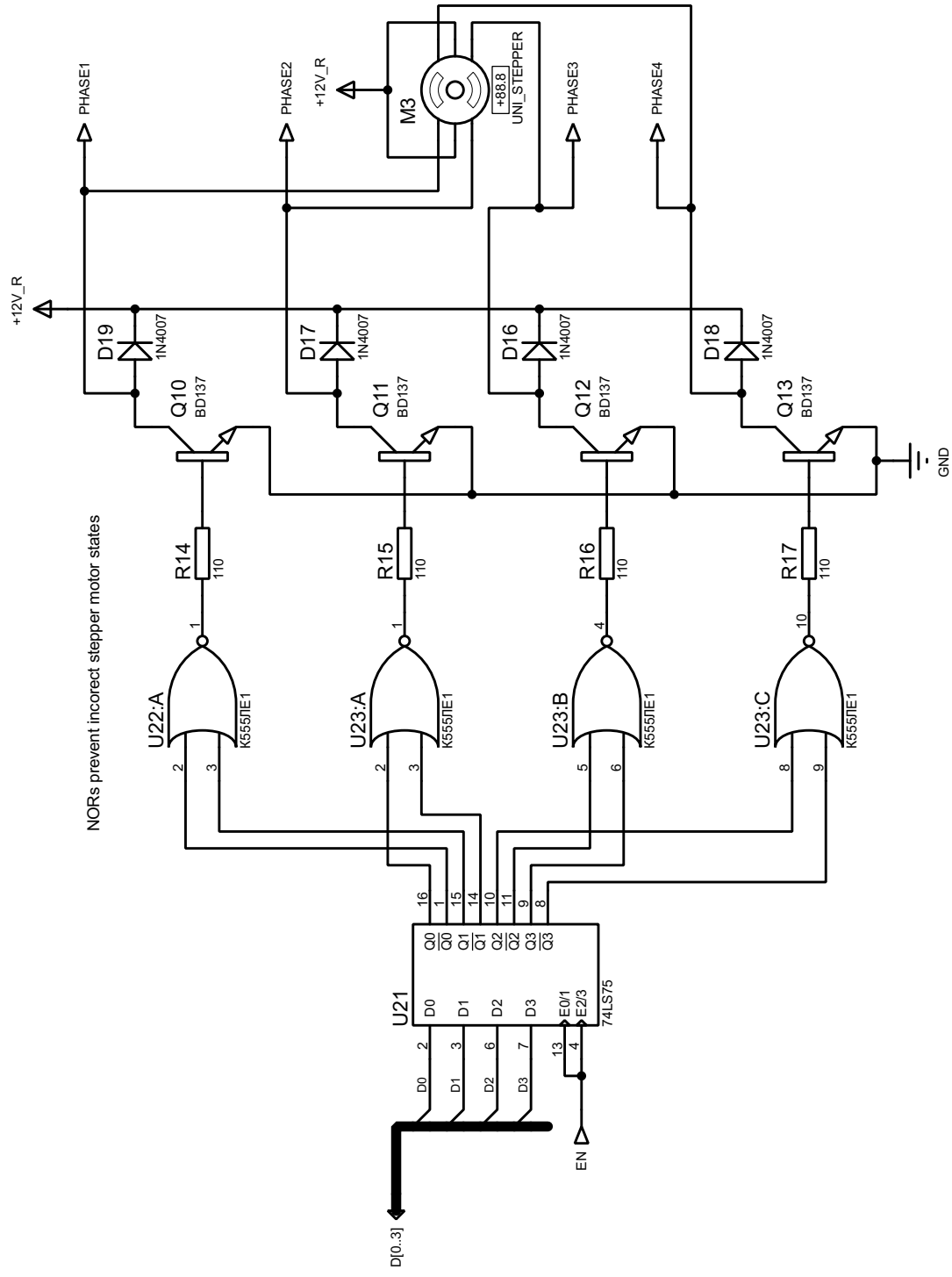
FILE NAME:	ROBKO_01.pdsprj	Motor driver	DATE:	3.12.2017 г.
DESIGN TITLE:	ROBKO-01 adapter for STM32L476RG Nucleo		PAGE:	6 of 14
PATH:	C:\Users\Vlad\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj		TIME:	20:04:14 ч.
BY:	Vladimir Garistov		REV:	0

NORs prevent incorrect stepper motor states



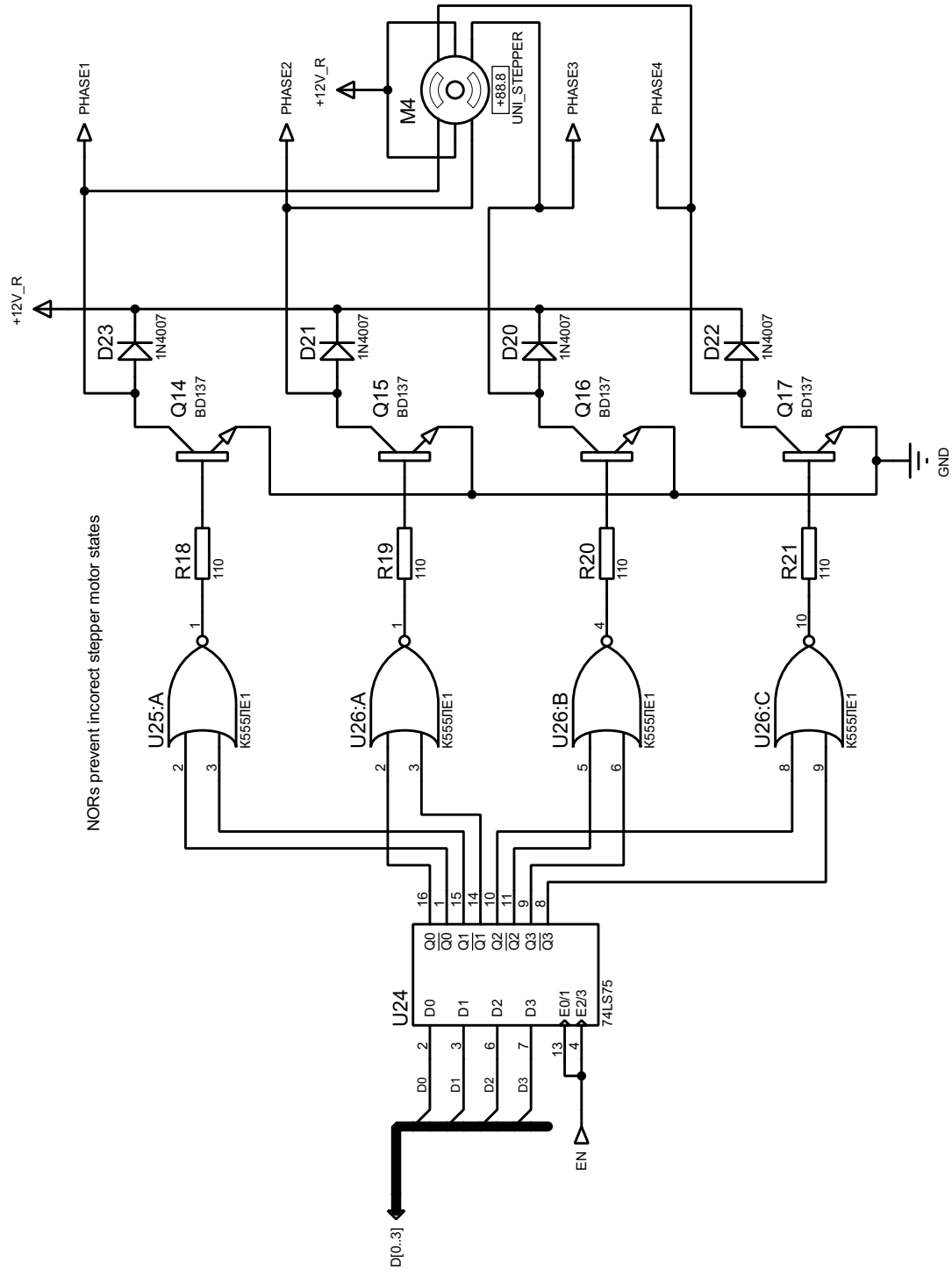
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DESIGN TITLE:	ROBKO-01 adapter for STM32L476RG Nucleo		PAGE:	7 of 14
PATH:	C:\Users\Vlad\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj		TIME:	20:04:14 ч.
BY:	Vladimir Garistov		REV:	0

NORs prevent incorrect stepper motor states



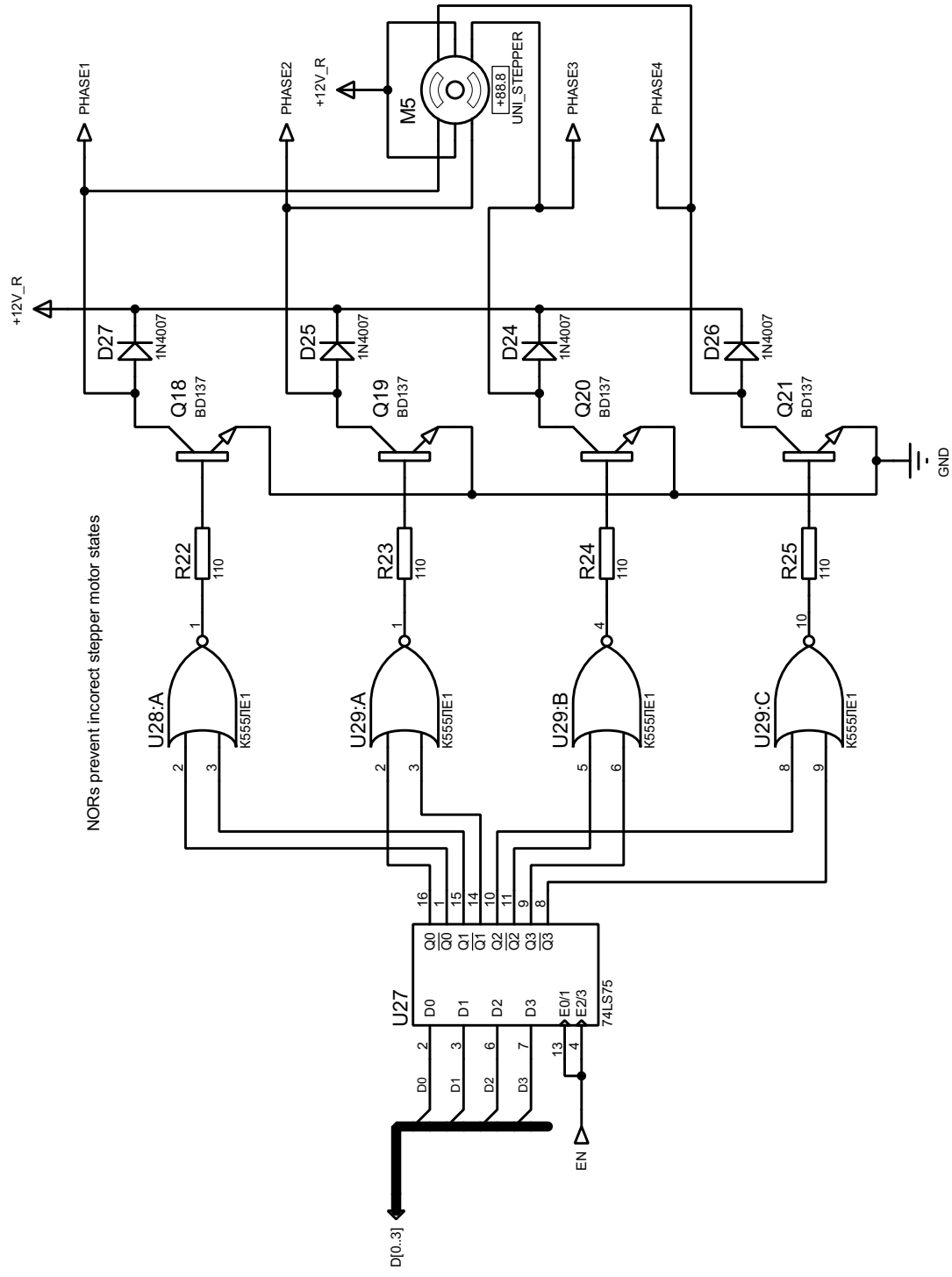
FILE NAME:	ROBKO_01.pdsprj	Motor driver	DATE:	3.12.2017 г.
DESIGN TITLE:	ROBKO-01 adapter for STM32L476RG Nucleo		PAGE:	8 of 14
PATH:	C:\Users\Vlad\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj		TIME:	20:04:14 ч.
BY:	Vladimir Garistov		REV:	0

NORs prevent incorrect stepper motor states



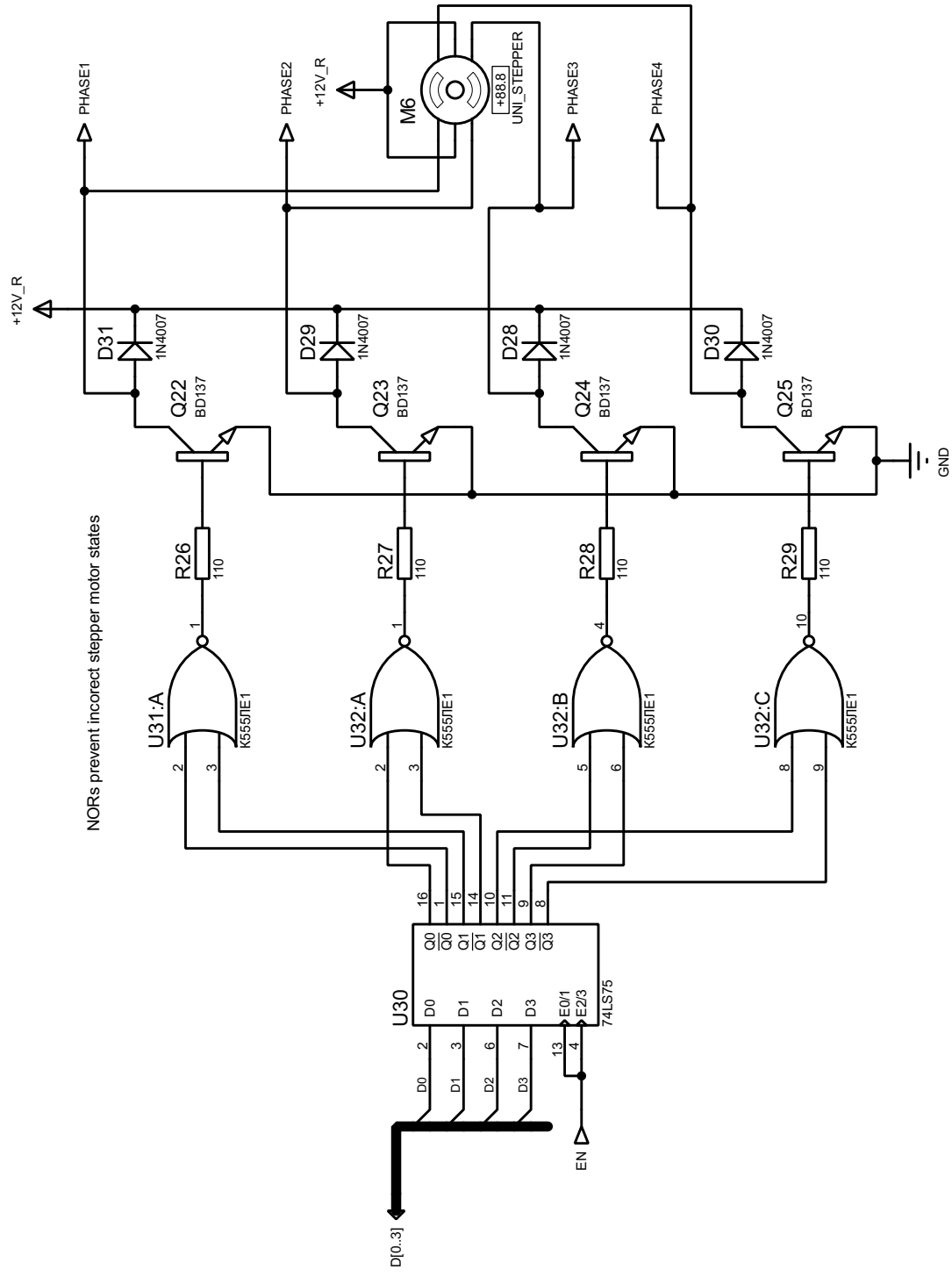
FILE NAME:	ROBKO_01.pdsprj	Motor driver	DATE:	3.12.2017 г.
DESIGN TITLE:	ROBKO-01 adapter for STM32L476RG Nucleo		PAGE:	9 of 14
PATH:	C:\Users\Vlad\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj		TIME:	20:04:14 ч.
BY:	Vladimir Garistov		REV:	0

NORs prevent incorrect stepper motor states

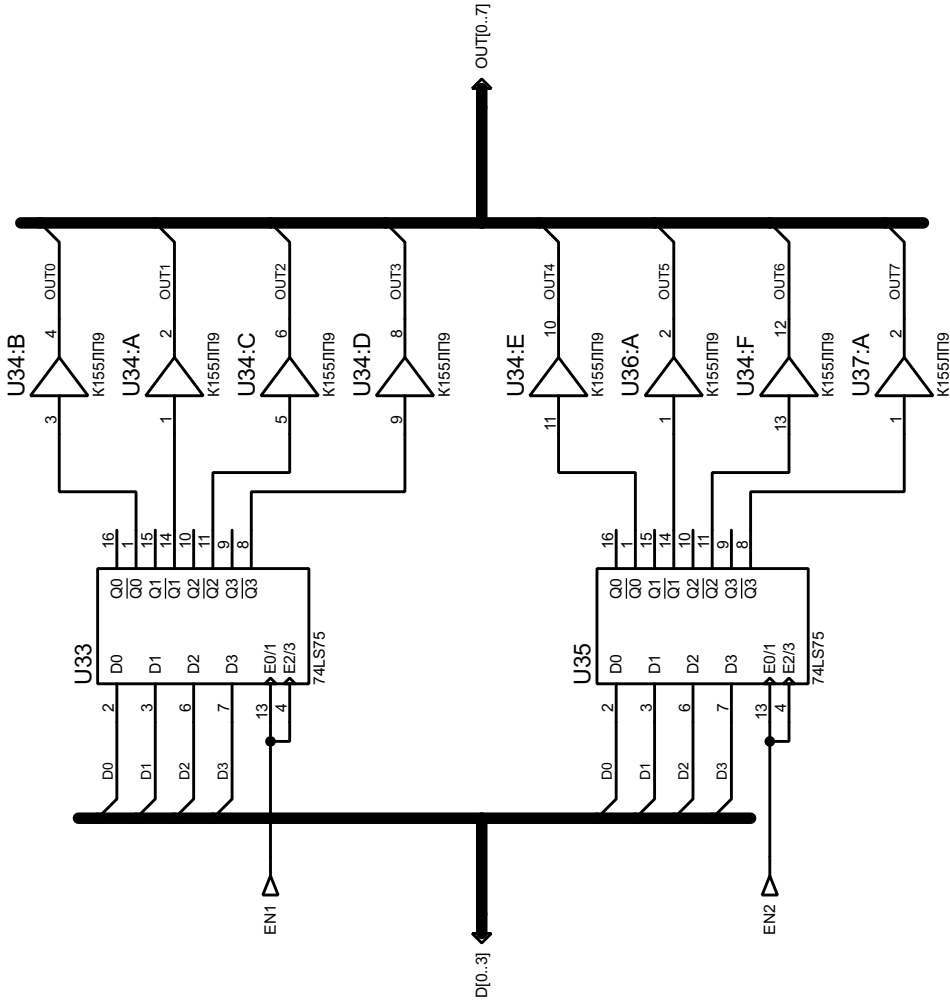


FILE NAME:	ROBKO_01.pdsprj	Motor driver	DATE:	3.12.2017 г.
DESIGN TITLE:	ROBKO-01 adapter for STM32L476RG Nucleo		PAGE:	10 of 14
PATH:	C:\Users\Vlad\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj		TIME:	20:04:14 ч.
BY:	Vladimir Garistov		REV:	0

NORs prevent incorrect stepper motor states



FILE NAME:	ROBKO_01.pdsprj	Motor driver	DATE:	3.12.2017 г.
DESIGN TITLE:	ROBKO-01 adapter for STM32L476RG Nucleo		PAGE:	11 of 14
PATH:	C:\Users\Vlad\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj		TIME:	20:04:14 ч.
BY:	Vladimir Garistov		REV:	0



FILE NAME: **ROBKO_01.pdsprj**

Output buffers
ROBKO-01 adapter for STM32L476RG Nucleo

DATE: **3.12.2017 г.**

DESIGN TITLE: **ROBKO-01 adapter for STM32L476RG Nucleo**

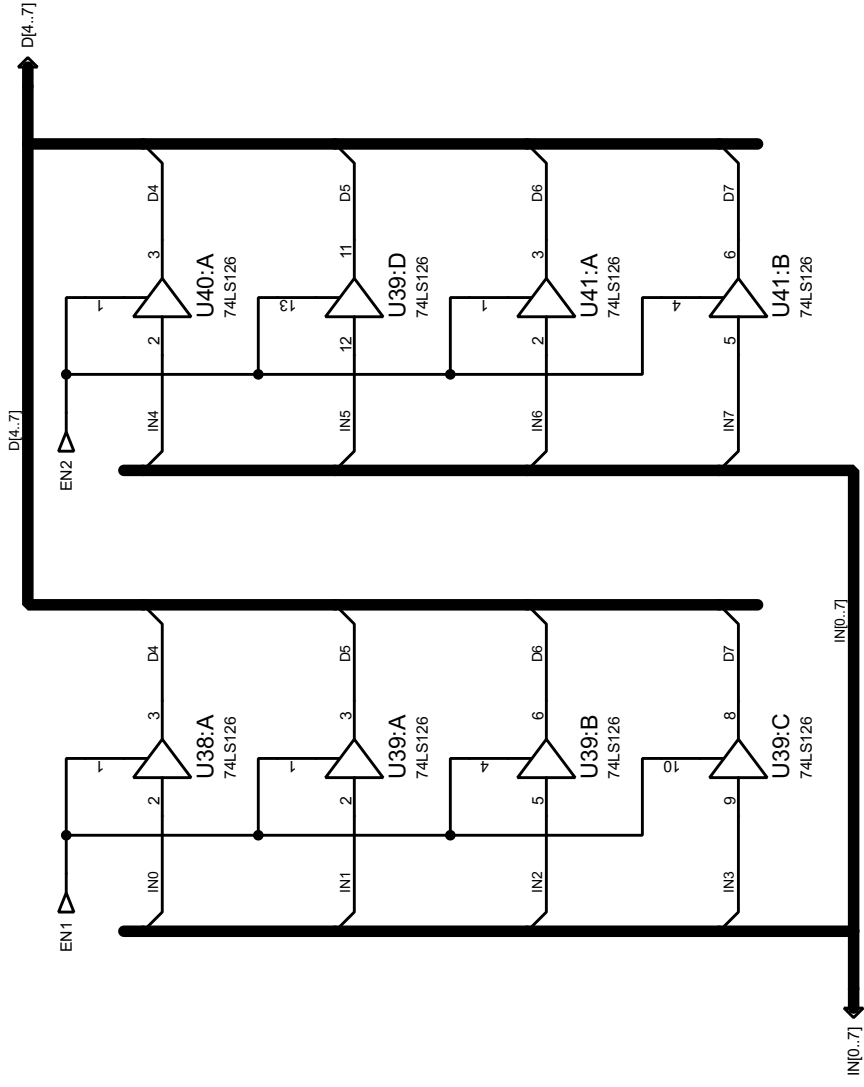
PAGE: **12 of 14**

PATH: **C:\Users\Viado\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj**

TIME: **20:04:14 ч.**

BY: **Vladimir Garistov**

REV: **0**



FILE NAME:	ROBKO_01.pdsprj	Input buffers	DATE:	3.12.2017 г.
DESIGN TITLE:	ROBKO-01 adapter for STM32L476RG Nucleo		PAGE:	13 of 14
PATH:	C:\Users\Vladol\Documents\Proteus_Projects\ROBKO_01\ROBKO_01.pdsprj		TIME:	20:04:14 ч.
BY:	Vladimir Garistov		REV:	0

