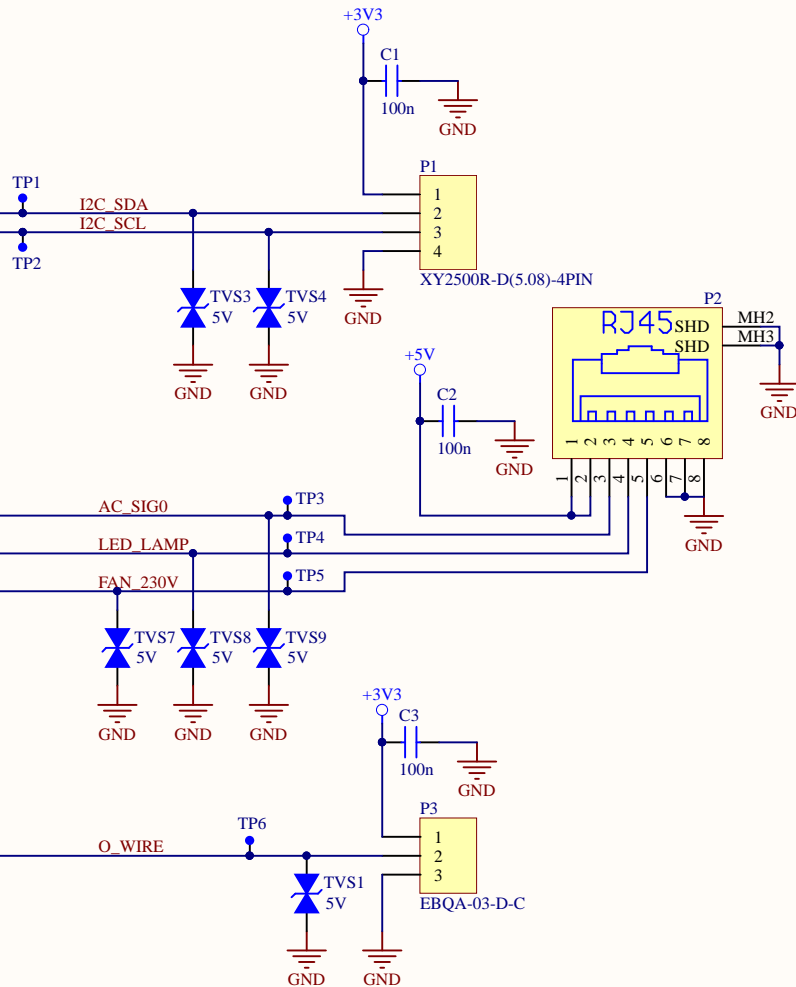
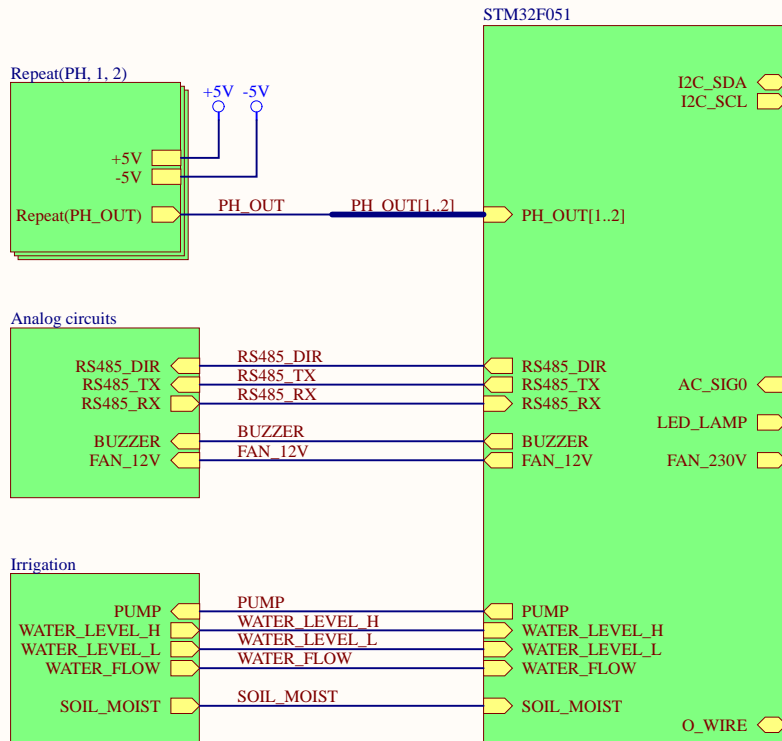
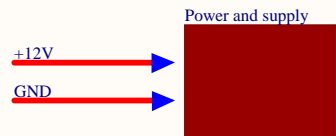


1

2

3

4



Z1
Gainta G706

Z3
Pino-Tech SoilWatch 10

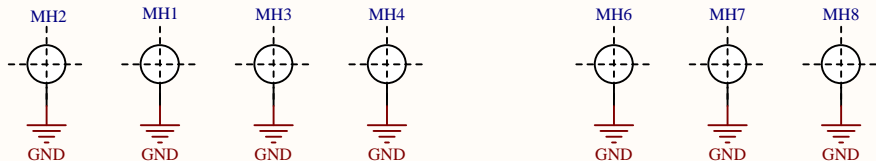
Z2
FS-IR02

Z4
FS-IR02

PROBE1
Hydromet ERH-AQ1

PROBE2
Hydromet ERH-13-6

PS1
SGA60E12-P1J



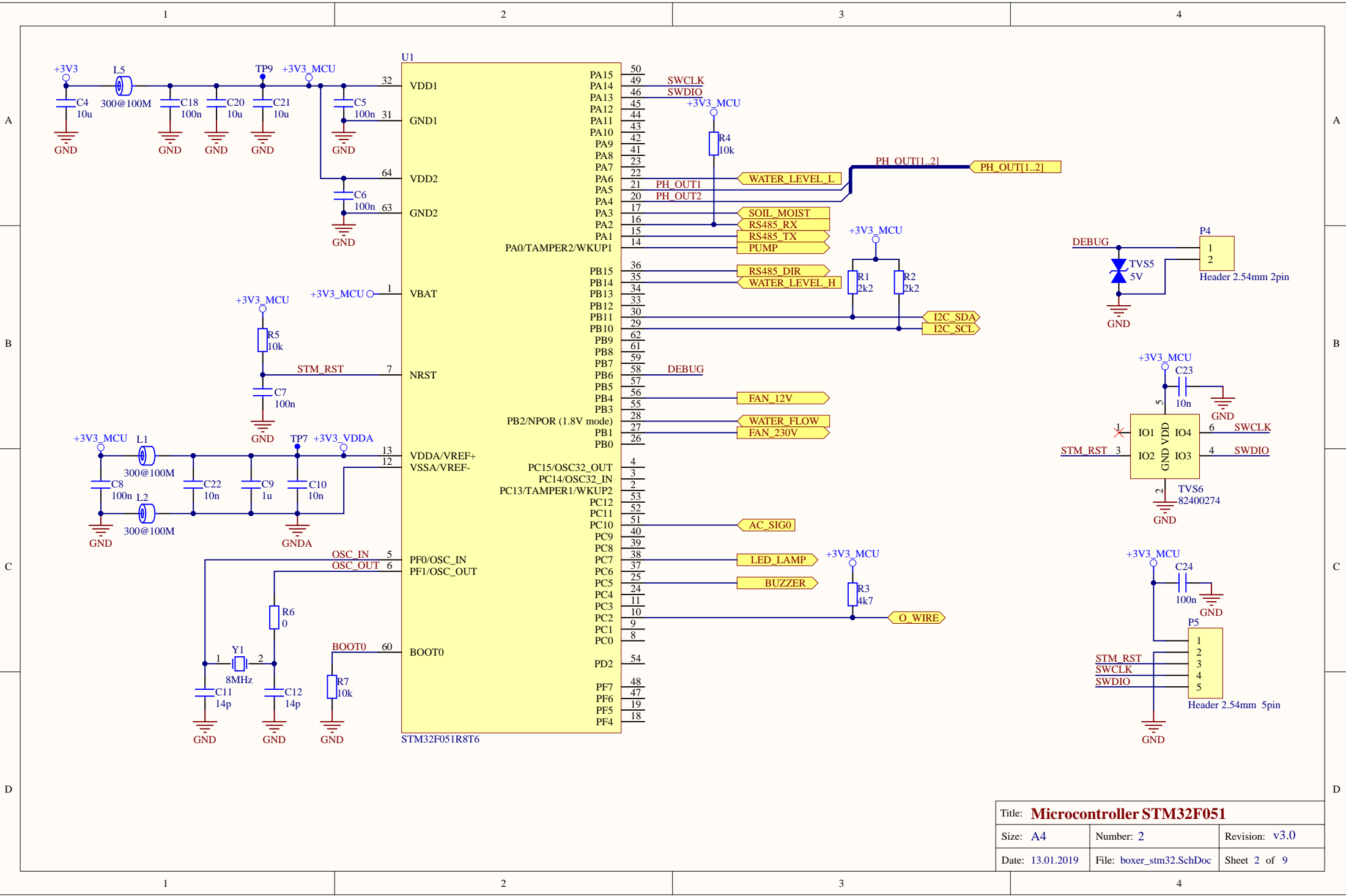
Title: Schemat blokowy		
Size: A4	Number: 1	Revision: v3.0
Date: 13.01.2019	File: boxer_main.SchDoc	Sheet 1 of 6

1

2

3

4



Title: Microcontroller STM32F051		
Size: A4	Number: 2	Revision: v3.0
Date: 13.01.2019	File: boxer_stm32.SchDoc	Sheet 2 of 9

1

2

3

4

A

A

B

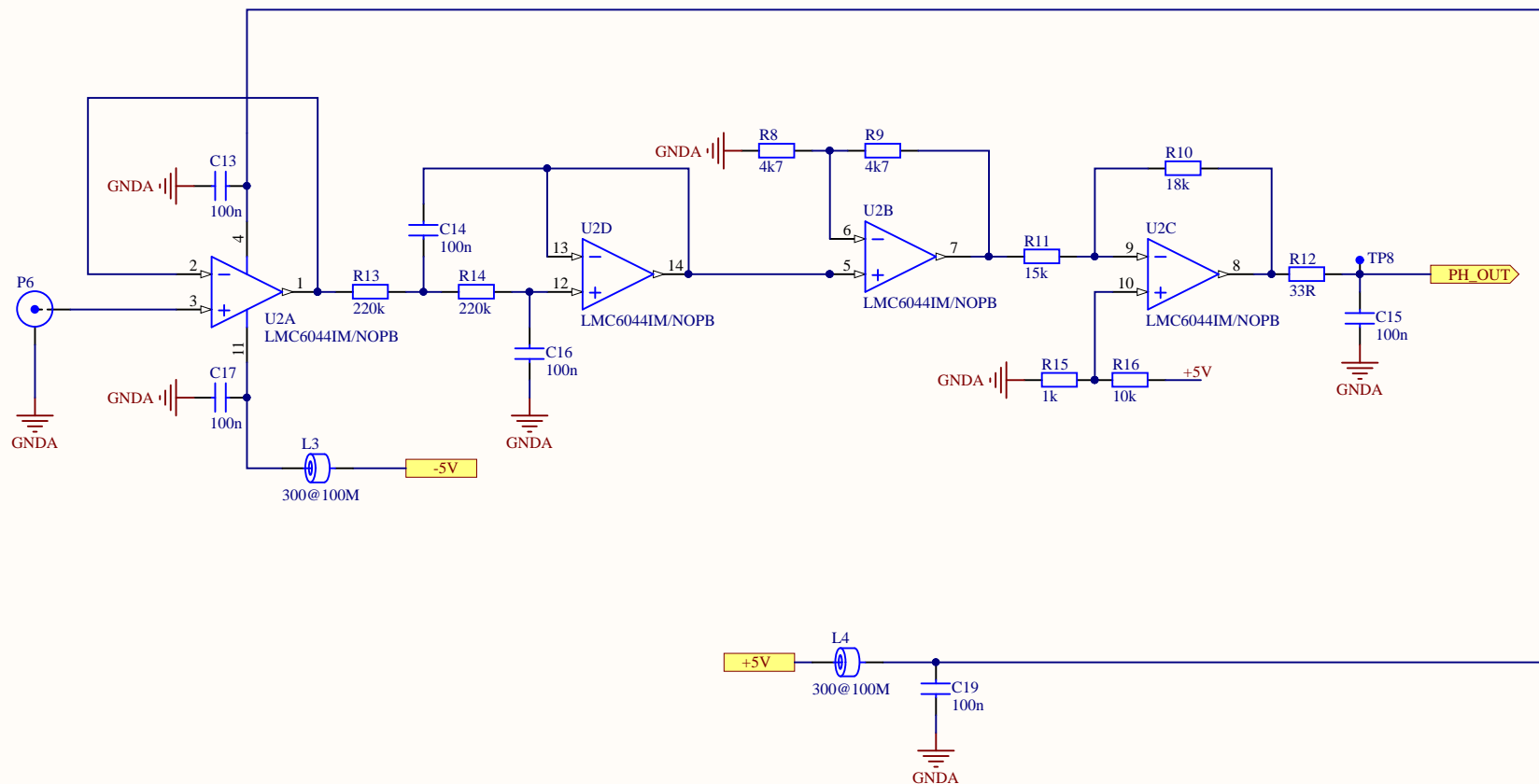
B

C

C

D

D

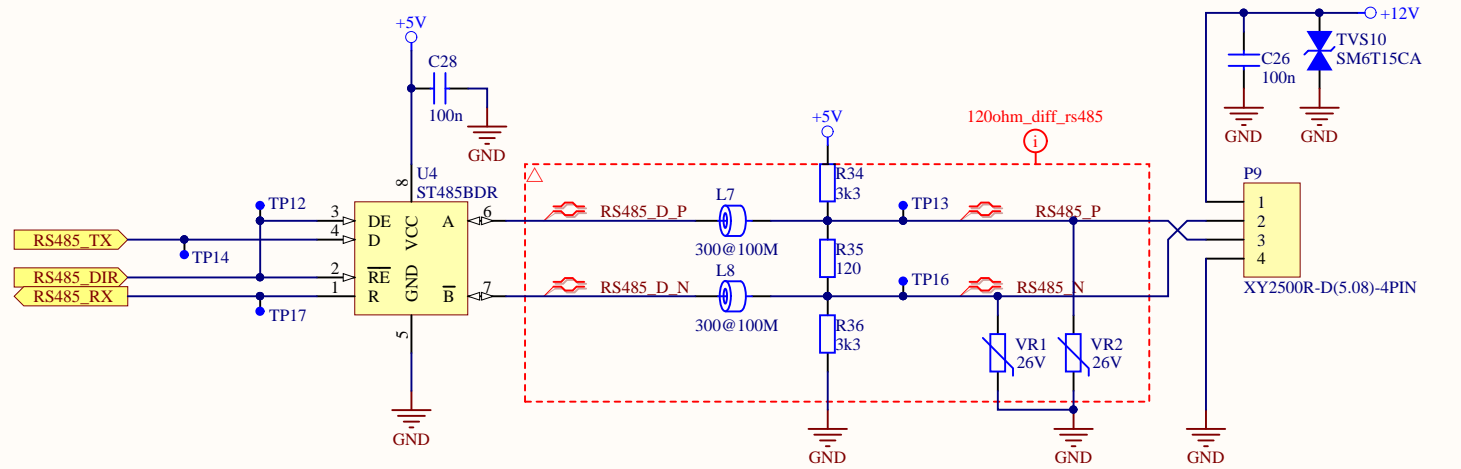
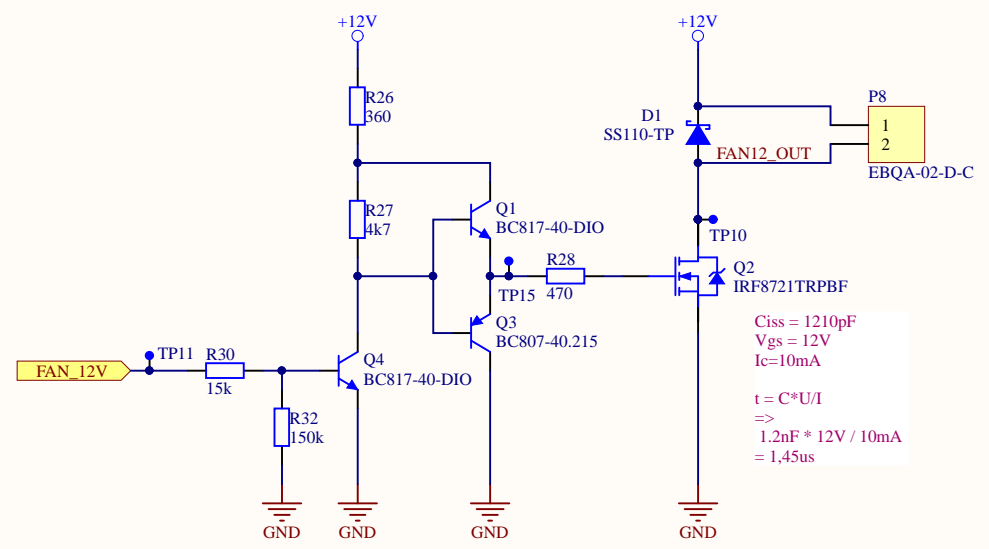
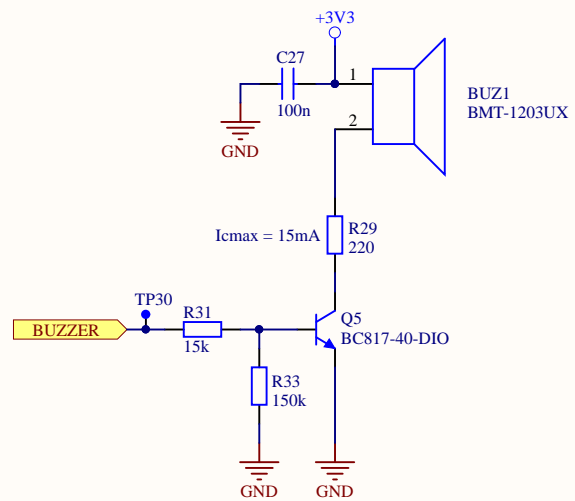
Title: **Water and Soil pH meter**Size: **A4**Number: **3**Revision: **v3.0**Date: **13.01.2019**File: **boxer_pH.SchDoc**Sheet **3** of **6**

1

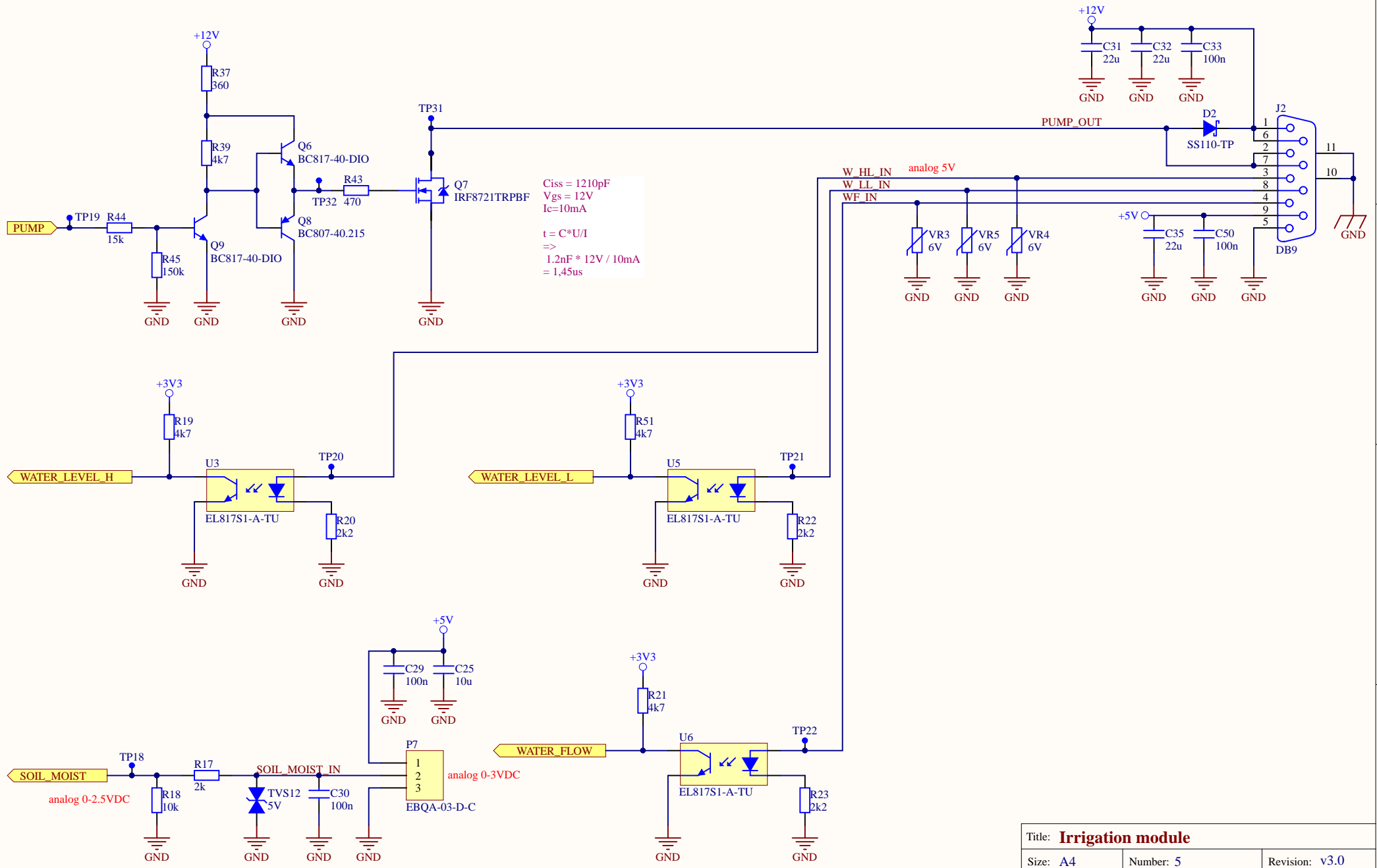
2

3

4

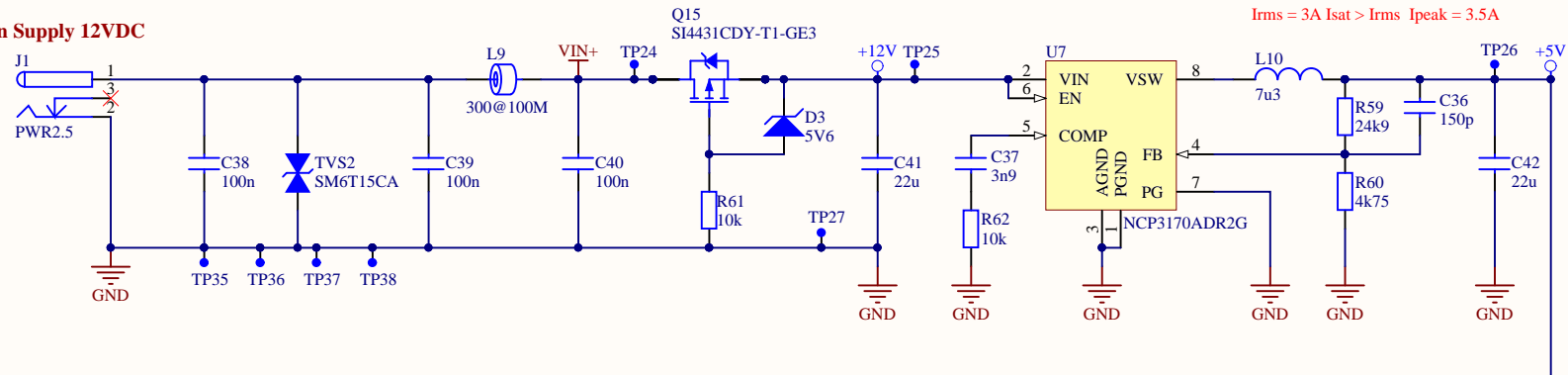


Title: RS485, Buzzer, 12V FAN		
Size: A4	Number: 4	Revision: v3.0
Date: 13.01.2019	File: boxer_analog.SchDoc	Sheet 4 of 6

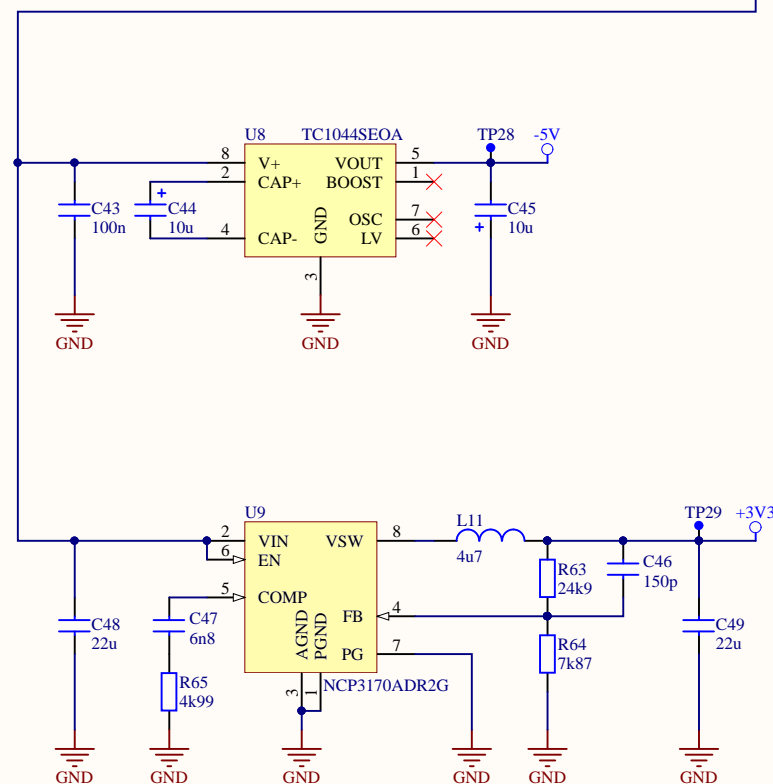


Title: Irrigation module		
Size: A4	Number: 5	Revision: v3.0
Date: 13.01.2019	File: boxer_irrigation.SchDocSheet 5 of 6	

Main Supply 12VDC



$I_{rms} = 3A$ $I_{sat} > I_{rms}$ $I_{peak} = 3.5A$



Title: **Power and Supply (+5V, -5V, +3.3V)**

Size: **A4** Number: **6** Revision: **v3.0**

Date: **13.01.2019** File: **boxer_supply.SchDoc** Sheet **6** of **6**