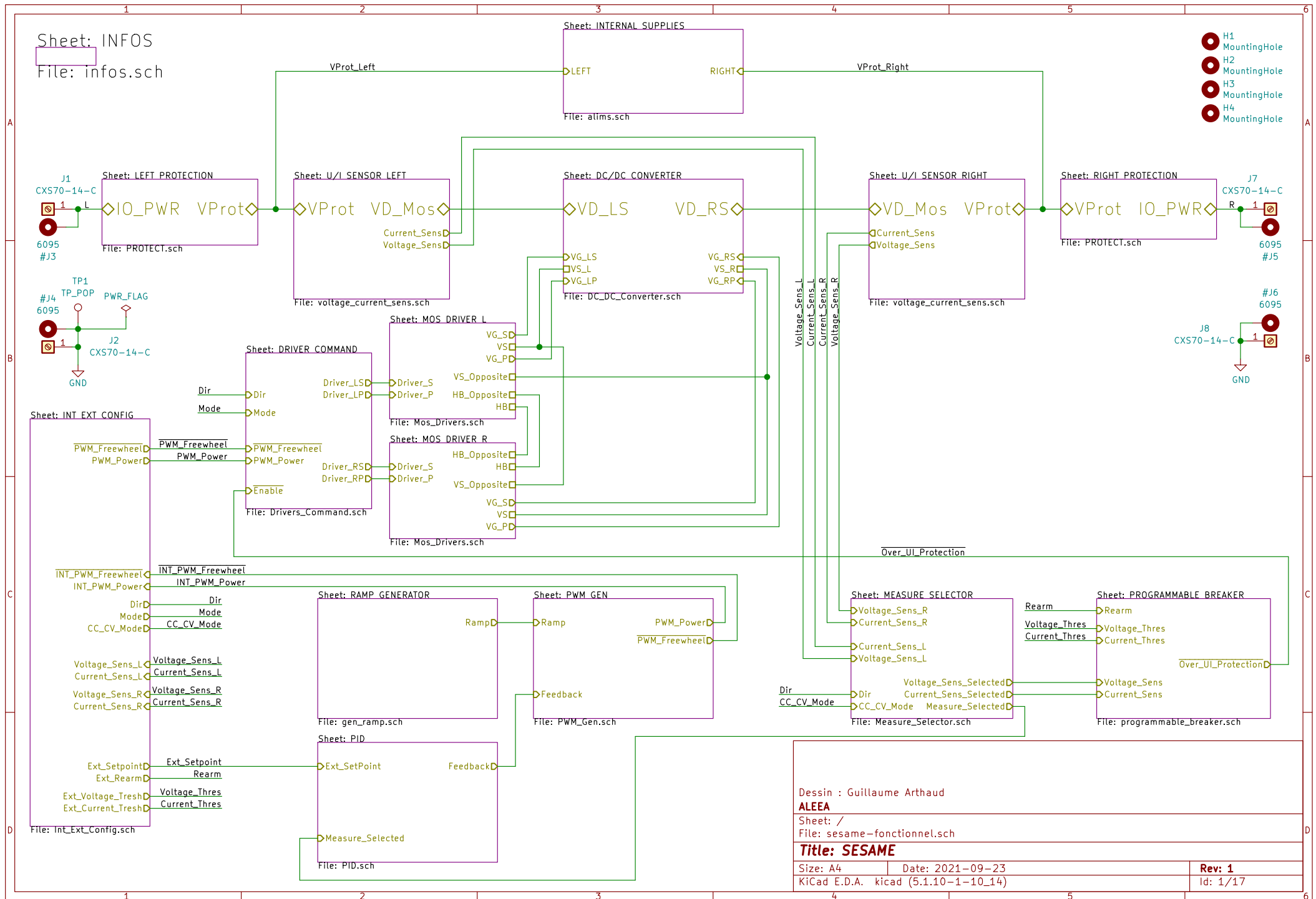
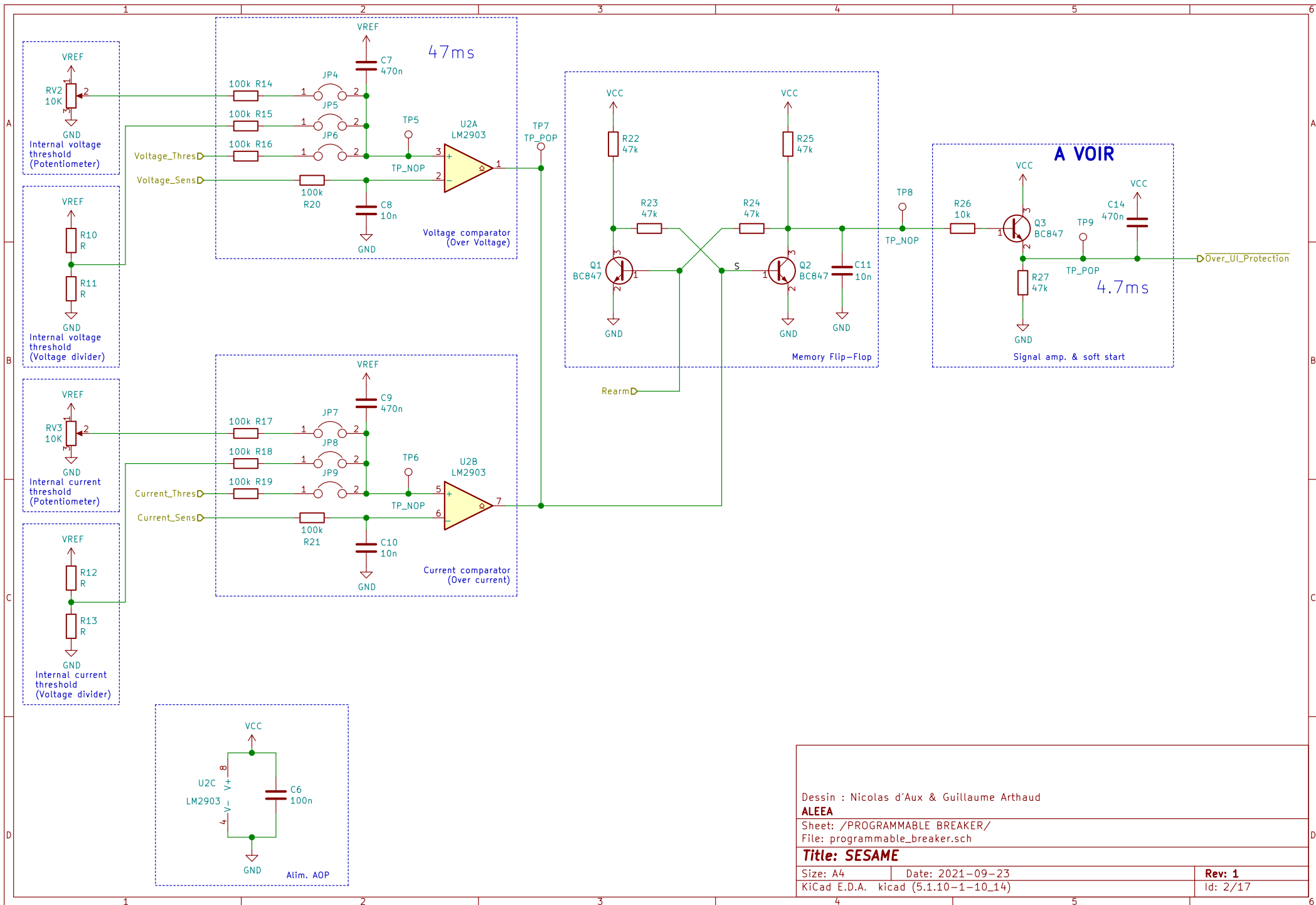


Sheet: INFOS
File: infos.sch





Dessin : Nicolas d'Aux & Guillaume Arthaud

ALEEA

Sheet: /PROGRAMMABLE BREAKER/

File: programmable_breaker.sch

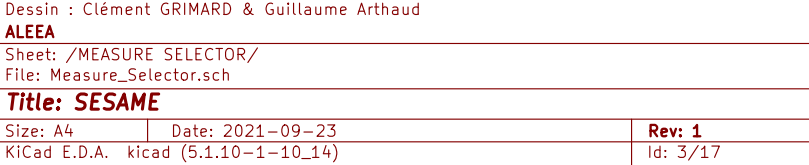
Title: SESAME

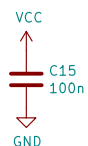
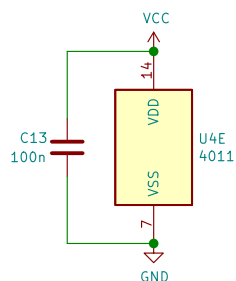
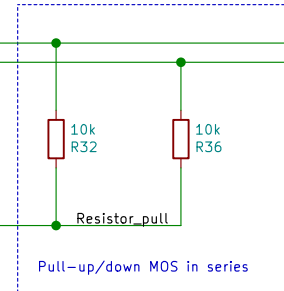
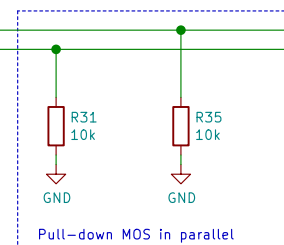
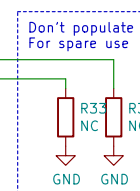
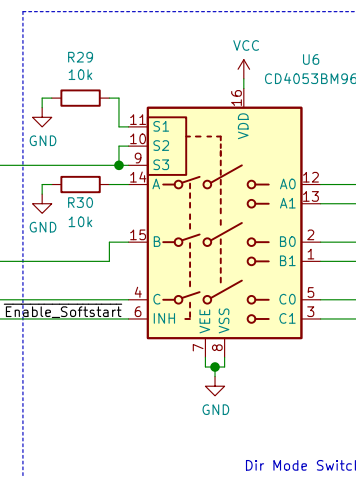
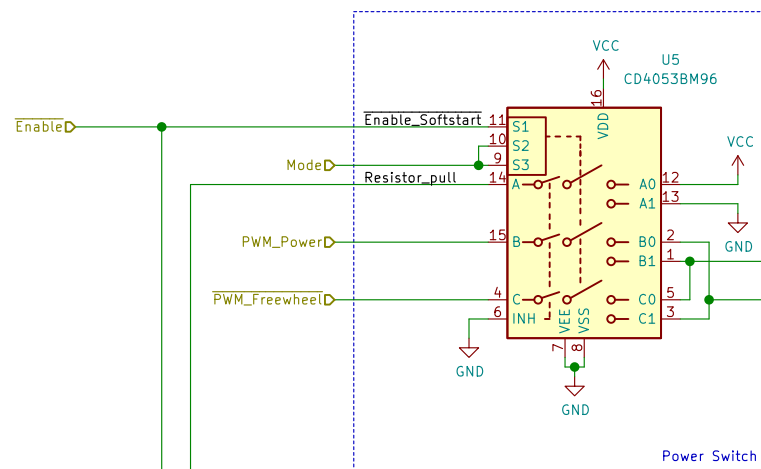
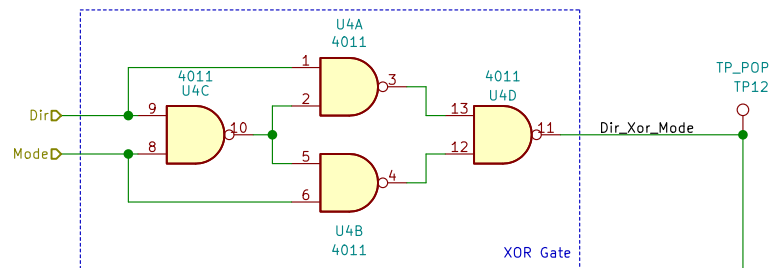
Size: A4 Date: 2021-09-23

KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1

Id: 2/17





	DIR	MODE	GS	GP	DS	DP
Buck (I Droit)	0	0	PWM	~PWM	1	0
Boost (I Droit)	0	1	1	0	~PWM	PWM
Buck (I Gauche)	1	0	1	0	PWM	~PWM
Boost (I Gauche)	1	1	~PWM	PWM	1	0

Dessin : Clément & Josué & Guillaume Arthaud

ALEEA

Sheet: /DRIVER COMMAND/

File: Drivers_Command.sch

Title: **SESAME**

Size: A4 Date: 2021-09-23

KiCad E.D.A. kicad (5.1.10-1-10_14)

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Soft starts order:
Enable Driver < PID < Entree de disjoncteur
4.7ms < 23ms < 47ms

Memo:

L = Left
R = Right
S = Serial
P = Parallel
G = Gate
D = Drain

Power connectors:

Johnson / Cinch Connectivity Solutions 108-0740-102
or Keystone 6095
+ CXS70-14-C

FUTURE Improvements:

SHIELD BLOCKS

Measure UI L + R

Driver MOS

Ramp Generator + PID + PWM GEN

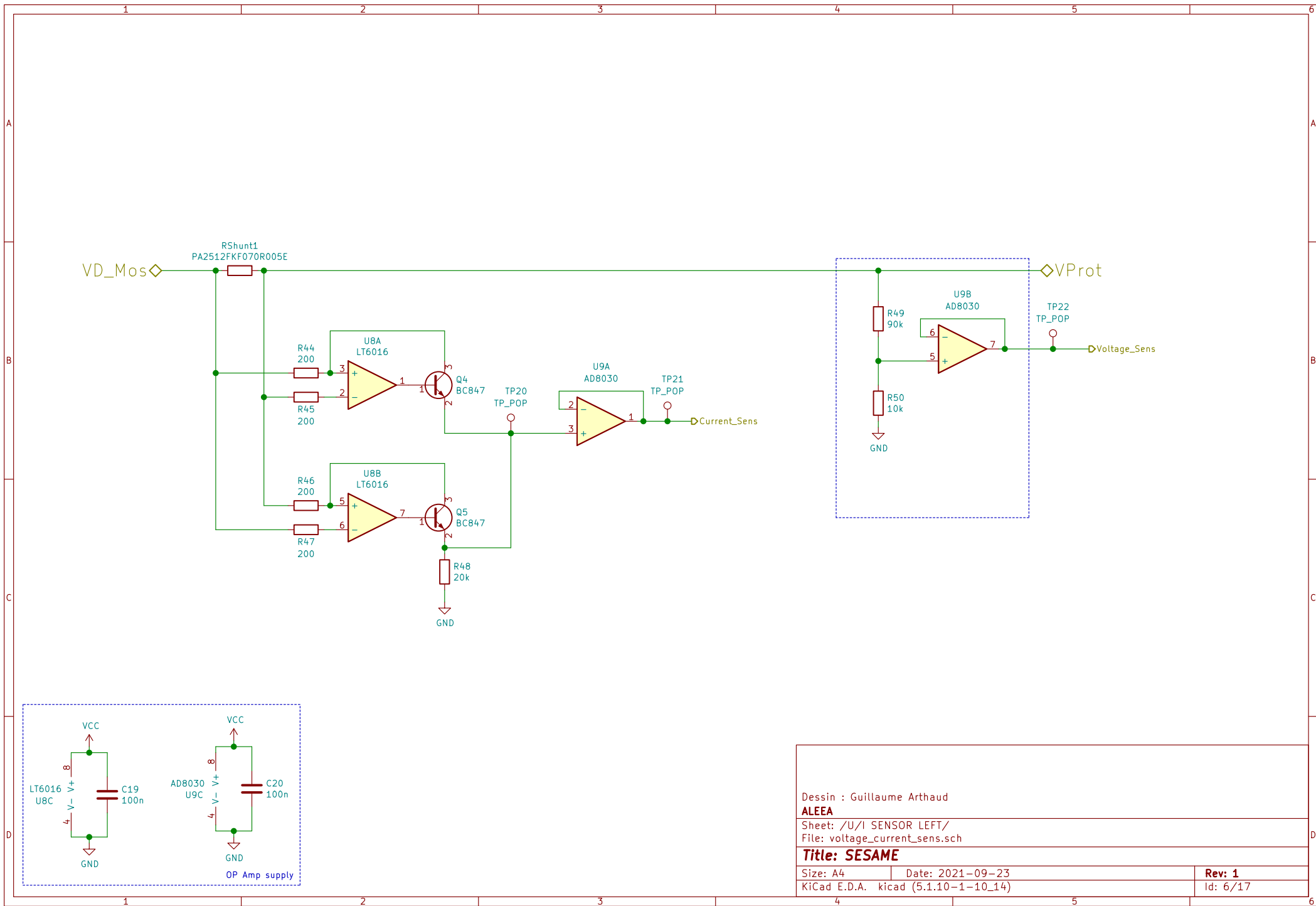
ALEEA

Sheet: /INFOS/
File: infos.sch

Title: SESAME

Size: A4 Date: 2021-09-23
KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1
Id: 5/17



Dessin : Guillaume Arthaud

ALEEA

Sheet: /U/I SENSOR LEFT/
File: voltage_current_sens.sch

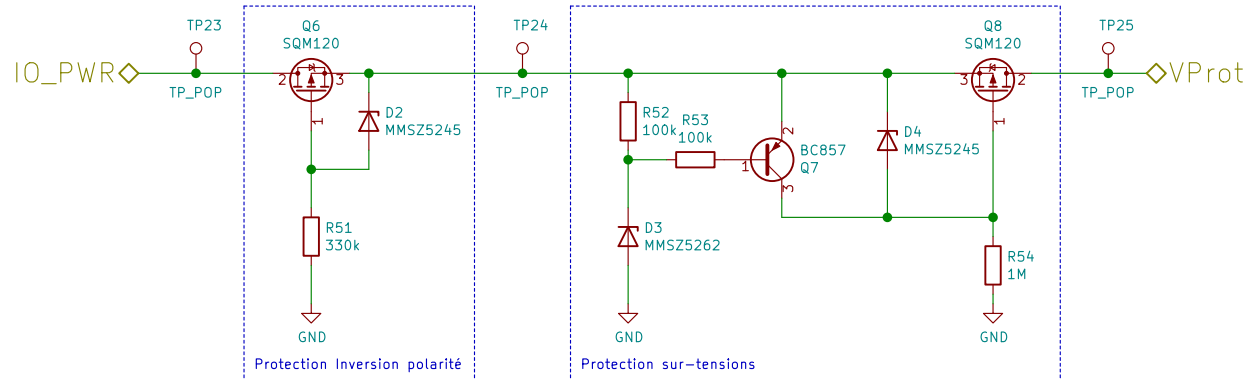
Title: SESAME

Size: A4 Date: 2021-09-23

KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1

Id: 6/17



Dessin : Guillaume Arthaud

ALEEA

Sheet: /LEFT PROTECTION/

File: PROTECT.sch

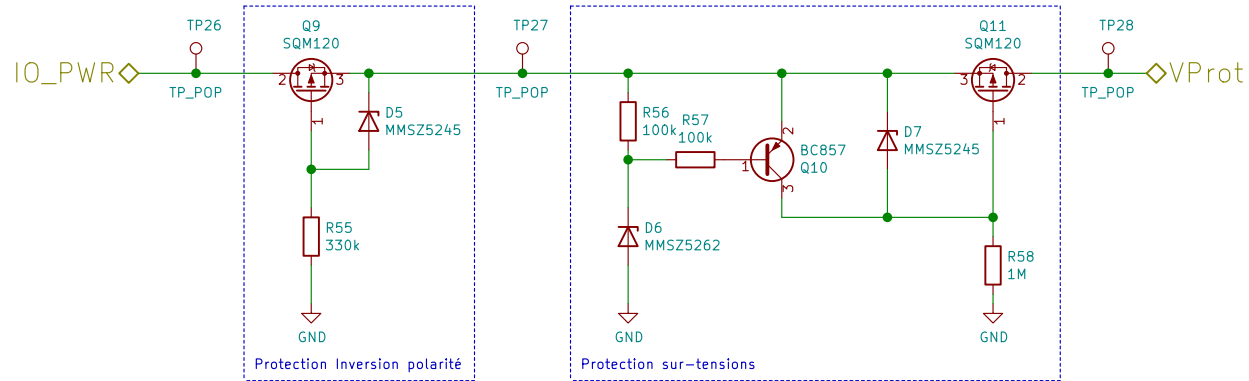
Title: SESAME

Size: A4 Date: 2021-09-23

KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1

Id: 7/17



Dessin : Guillaume Arthaud

ALEEA

Sheet: /RIGHT PROTECTION/

File: PROTECT.sch

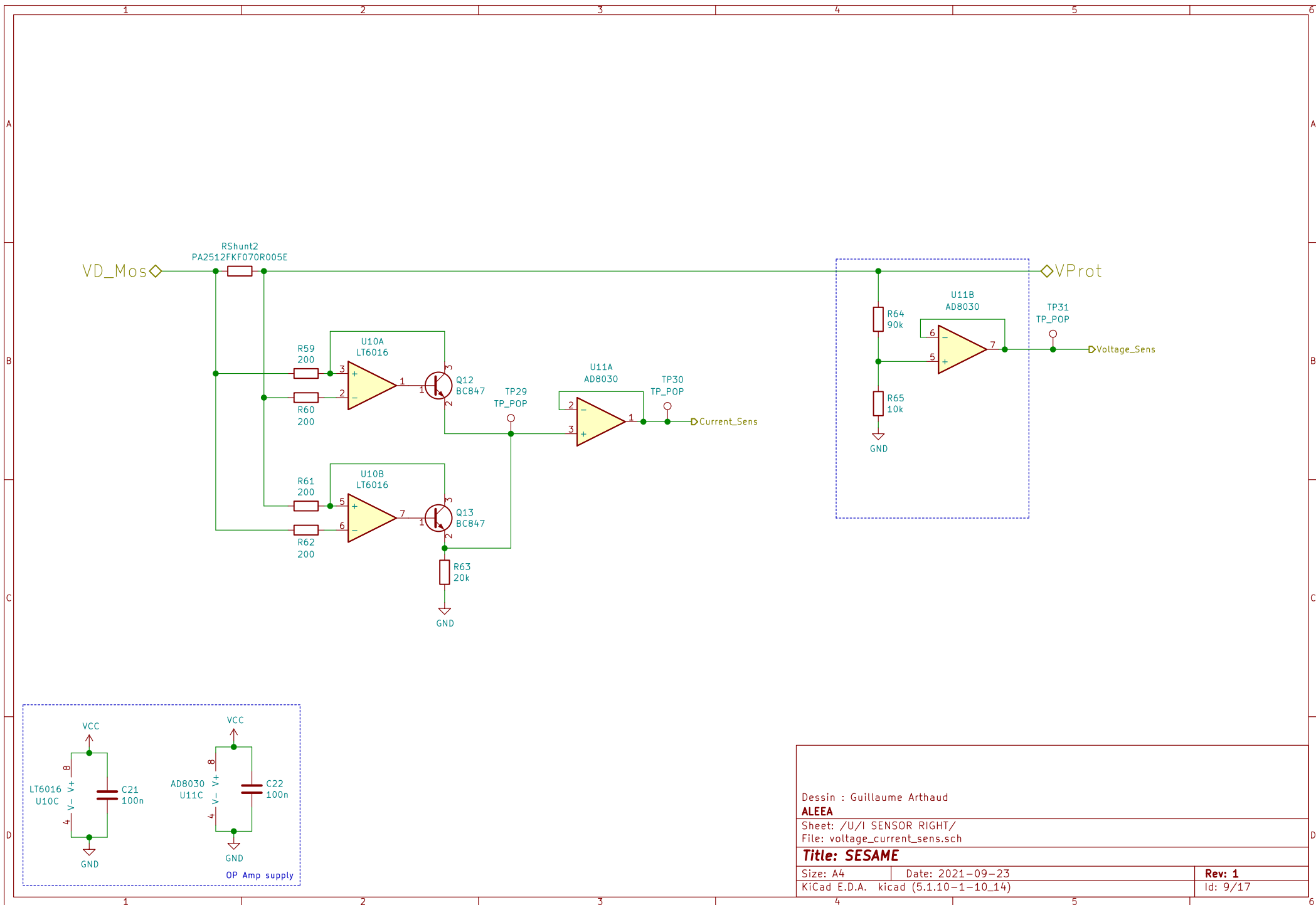
Title: SESAME

Size: A4 Date: 2021-09-23

KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1

Id: 8/17



Dessin : Guillaume Arthaud

ALEEA

Sheet: /U/I SENSOR RIGHT/

File: voltage_current_sens.sch

Title: SESAME

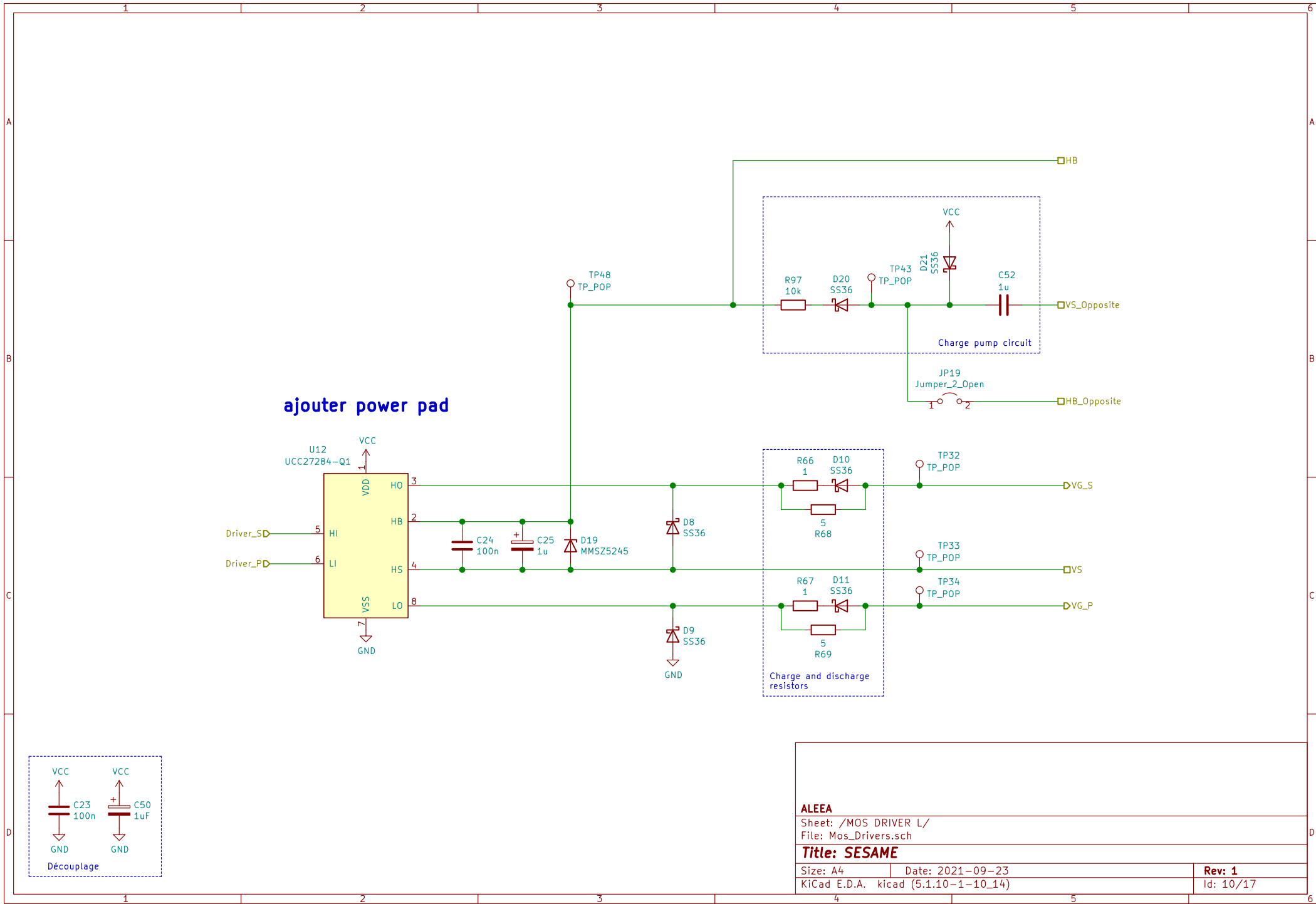
Size: A4

Date: 2021-09-23

KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1

Id: 9/17



ALEEA

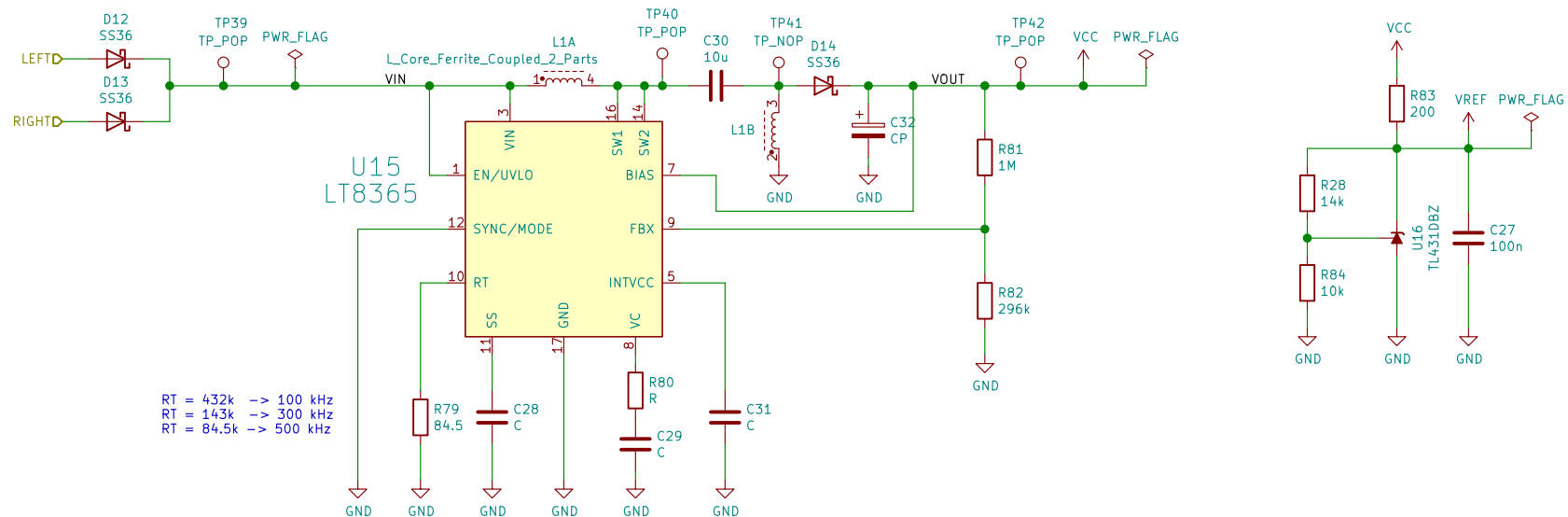
Sheet: /MOS DRIVER L/
File: Mos_Drivers.sch

Title: **SESAME**

Size: A4 Date: 2021-09-23
KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: **1**
Id: 10/17

VCC = 7V
VREF = 6V



ALEEA

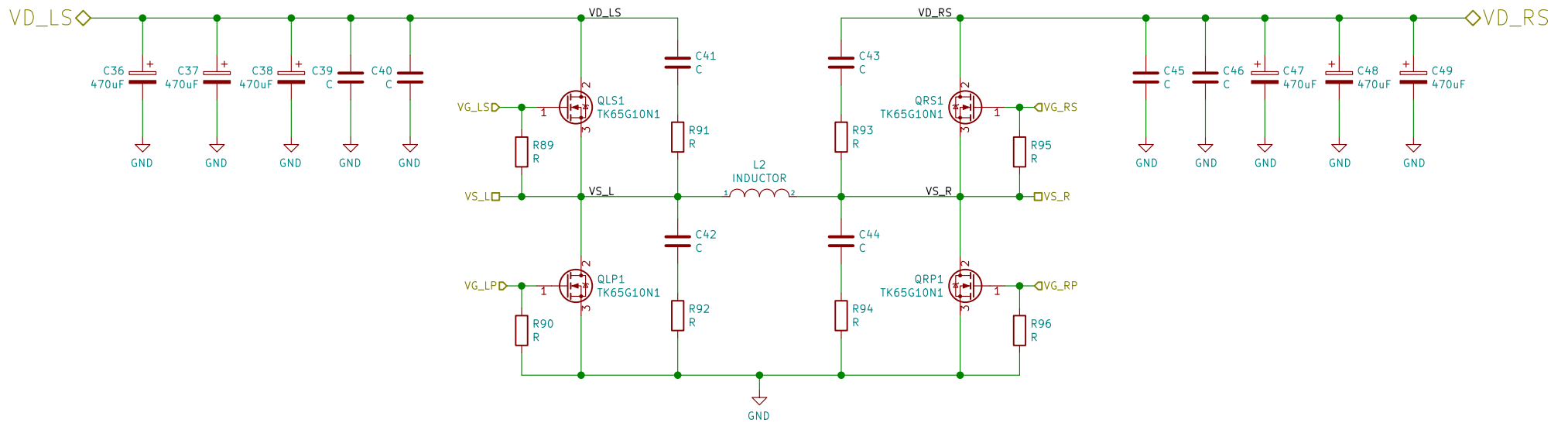
Sheet: /INTERNAL SUPPLIES/
File: alims.sch

Title: SESAME

Size: A4 Date: 2021-09-23
KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1
Id: 11/17

Inductor between 90uH -> 125uH
<https://fr.rs-online.com/web/p/inductances-traversantes/1816037>
<https://fr.rs-online.com/web/p/inductances-traversantes/1542466>
<https://fr.rs-online.com/web/p/inductances-traversantes/1048448>
<https://fr.rs-online.com/web/p/inductances-traversantes/1229231>



Dessin : Guillaume Arthaud

ALEEA

Sheet: /DC/DC CONVERTER/

File: DC_DC_Converter.sch

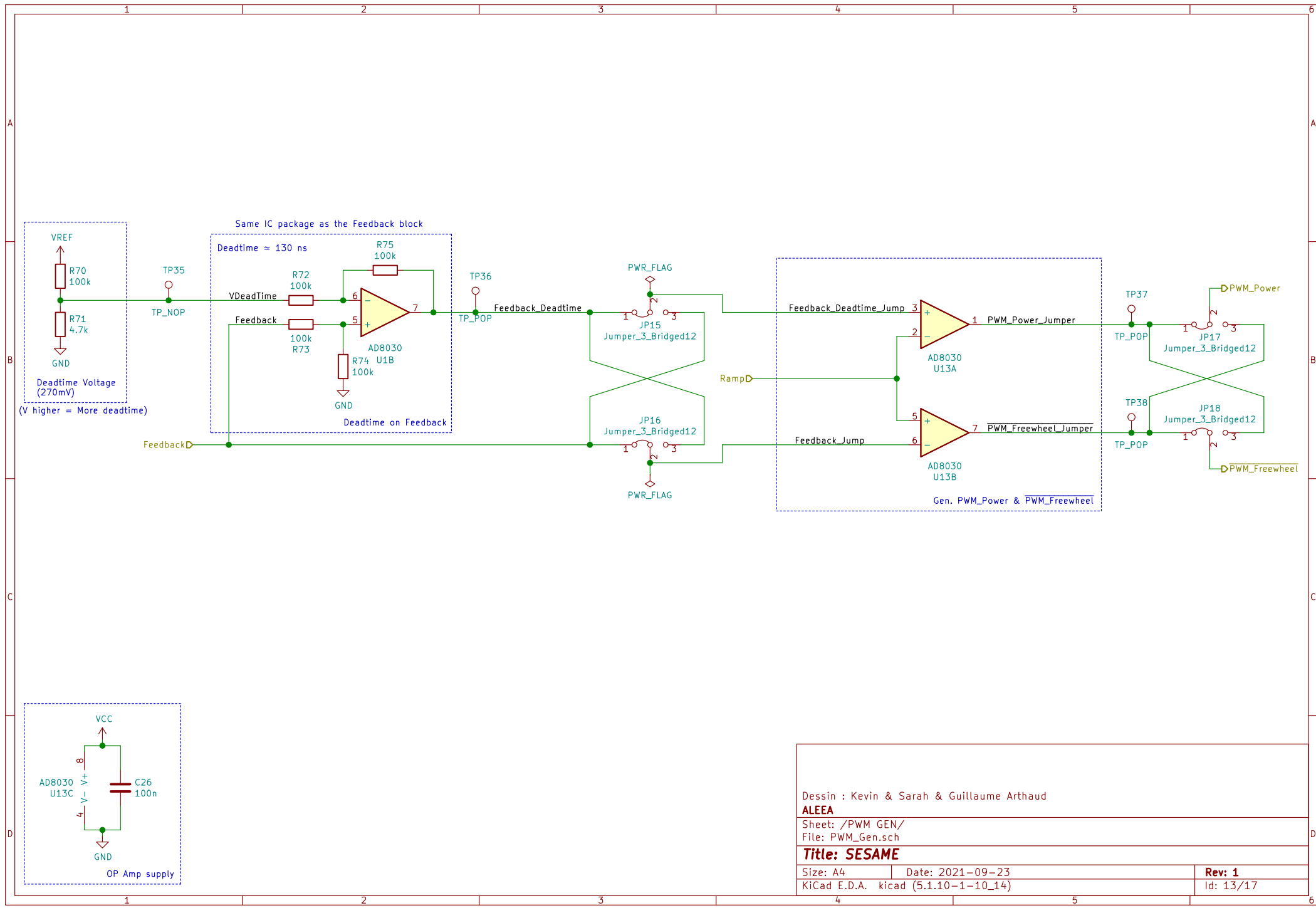
Title: **SESAME**

Size: A4 Date: 2021-09-23

KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1

Id: 12/17



Dessin : Kevin & Sarah & Guillaume Arthaud
ALEEA

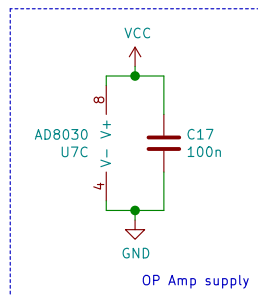
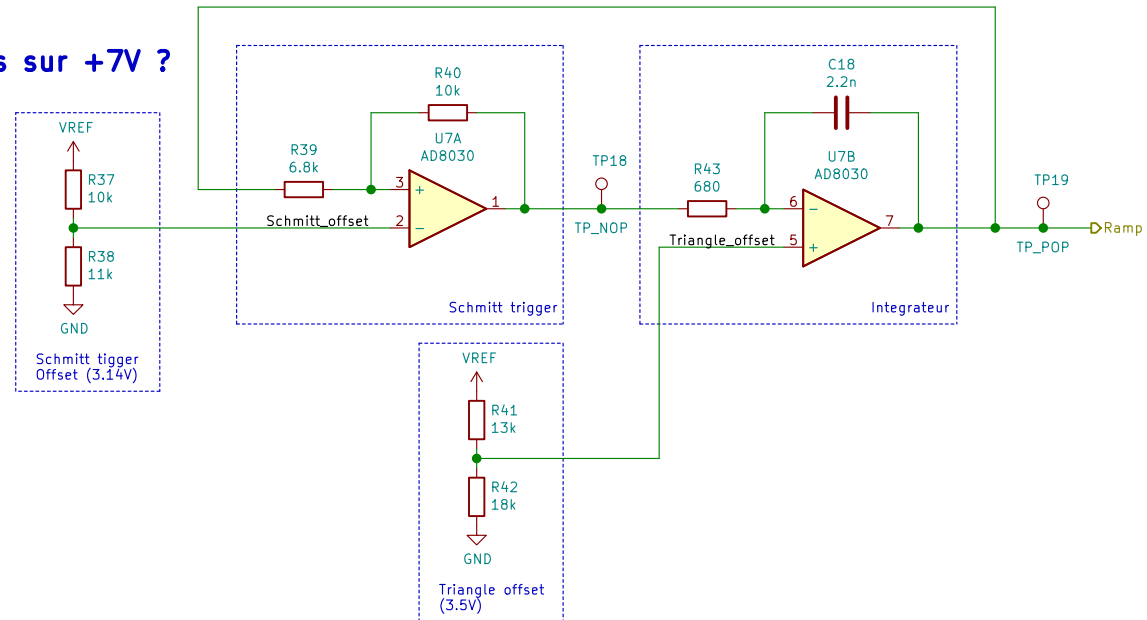
Sheet: /PWM_GEN/
File: PWM_Gen.sch

Title: SESAME

Size: A4 Date: 2021-09-23
KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1
Id: 13/17

ponts diviseurs sur +7V ?



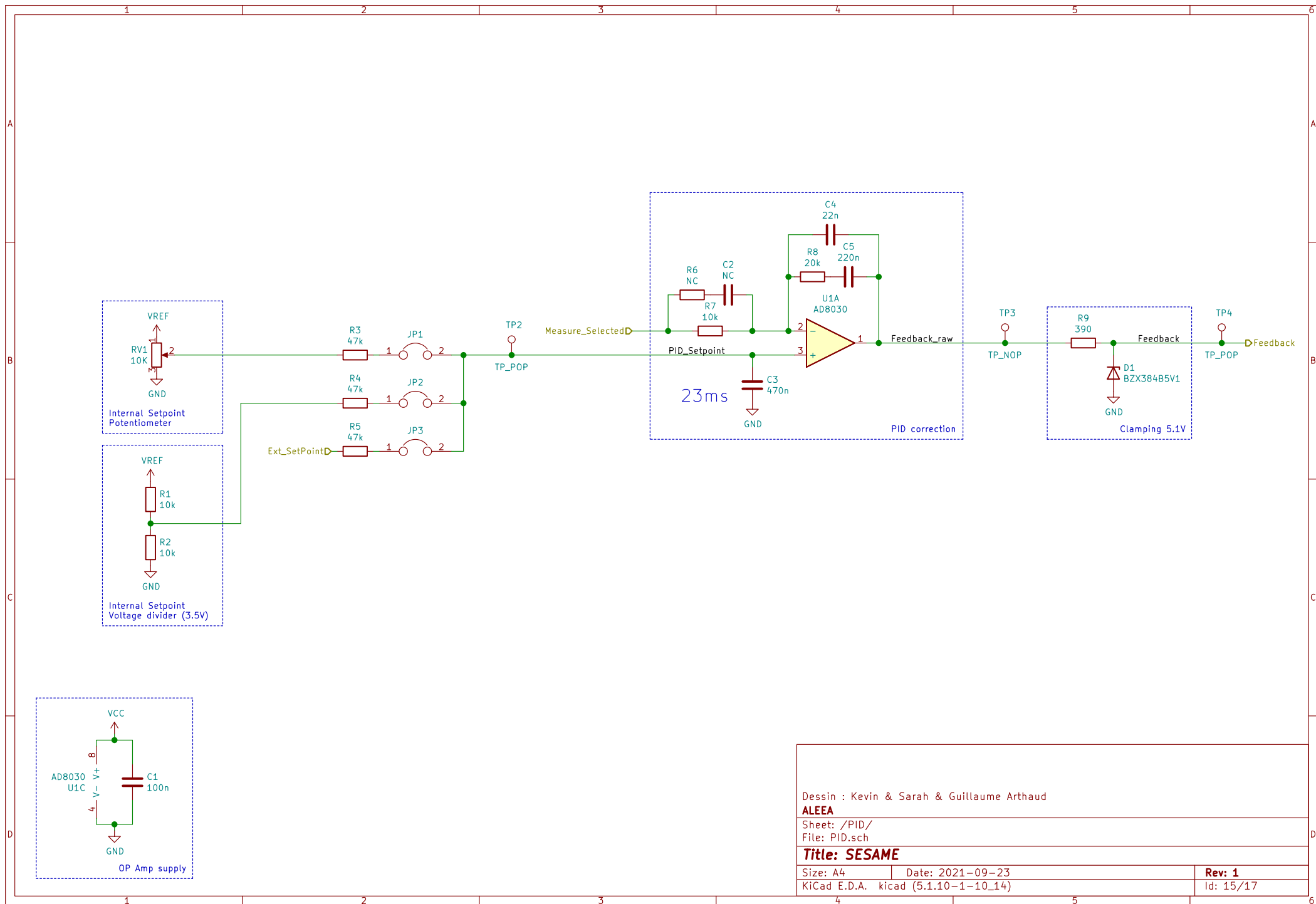
Dessin : Kevin & Sarah & Guillaume Arthaud
ALEEA

Sheet: /RAMP GENERATOR/
File: gen_ramp.sch

Title: SESAME

Size: A4 Date: 2021-09-23
KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1
Id: 14/17



Dessin : Kevin & Sarah & Guillaume Arthaud

ALEEA

Sheet: /PID/

File: PID.sch

Title: SESAME

Size: A4 Date: 2021-09-23

KiCad E.D.A. kicad (5.1.10-1-10_14)

Rev: 1

Id: 15/17

