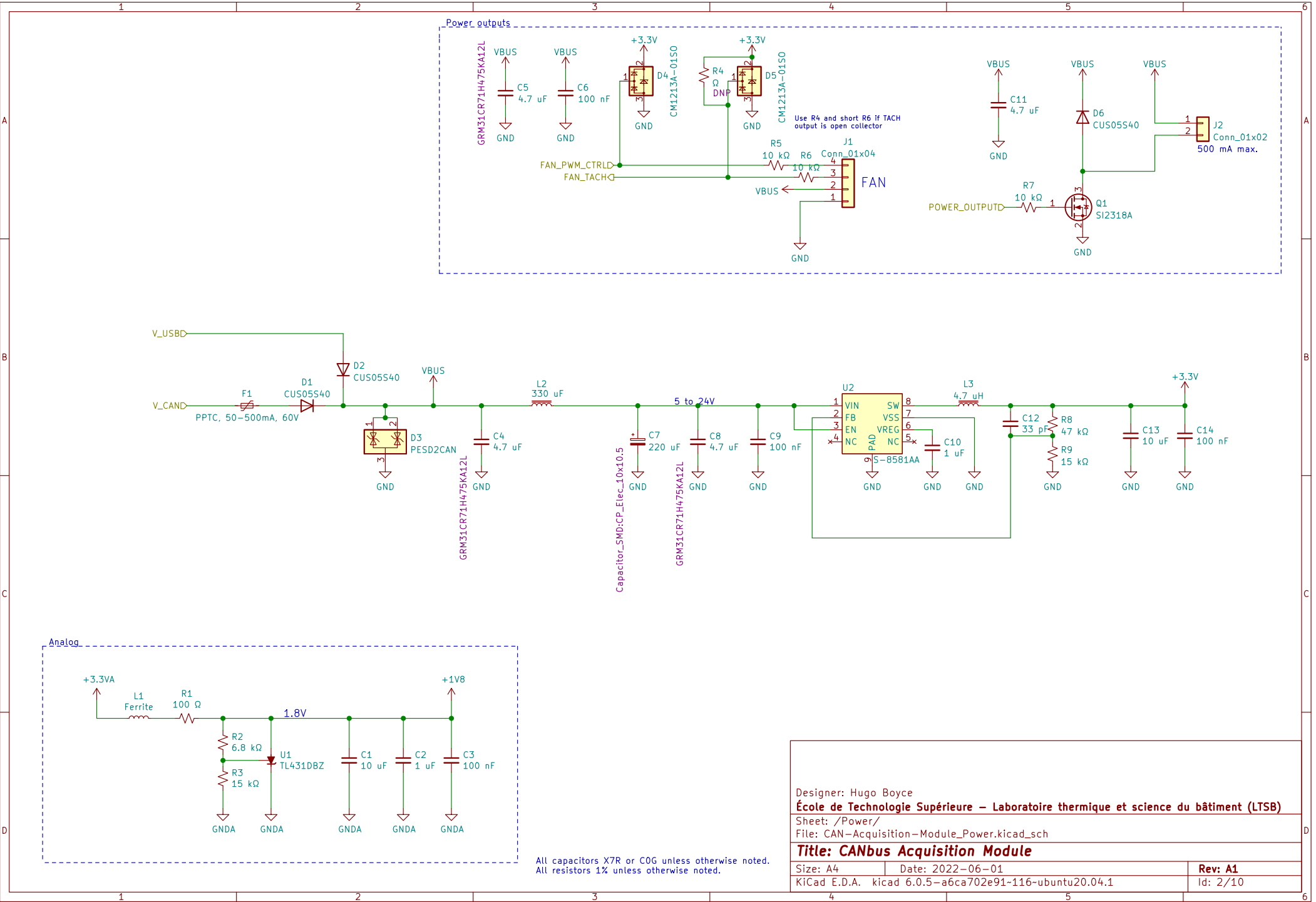


Designer: Hugo Boyce		
École de Technologie Supérieure – Laboratoire thermique et science du bâtiment (LTSB)		
Sheet: /		
File: CAN-Acquisition-Module.kicad_sch		
Title: CANbus Acquisition Module		
Size: A4	Date: 2022-06-01	Rev: A1
KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1		Id: 1/10



Designer: Hugo Boyce

École de Technologie Supérieure – Laboratoire thermique et science du bâtiment (LTSB)

Sheet: /Power/

File: CAN-Acquisition-Module_Power.kicad_sch

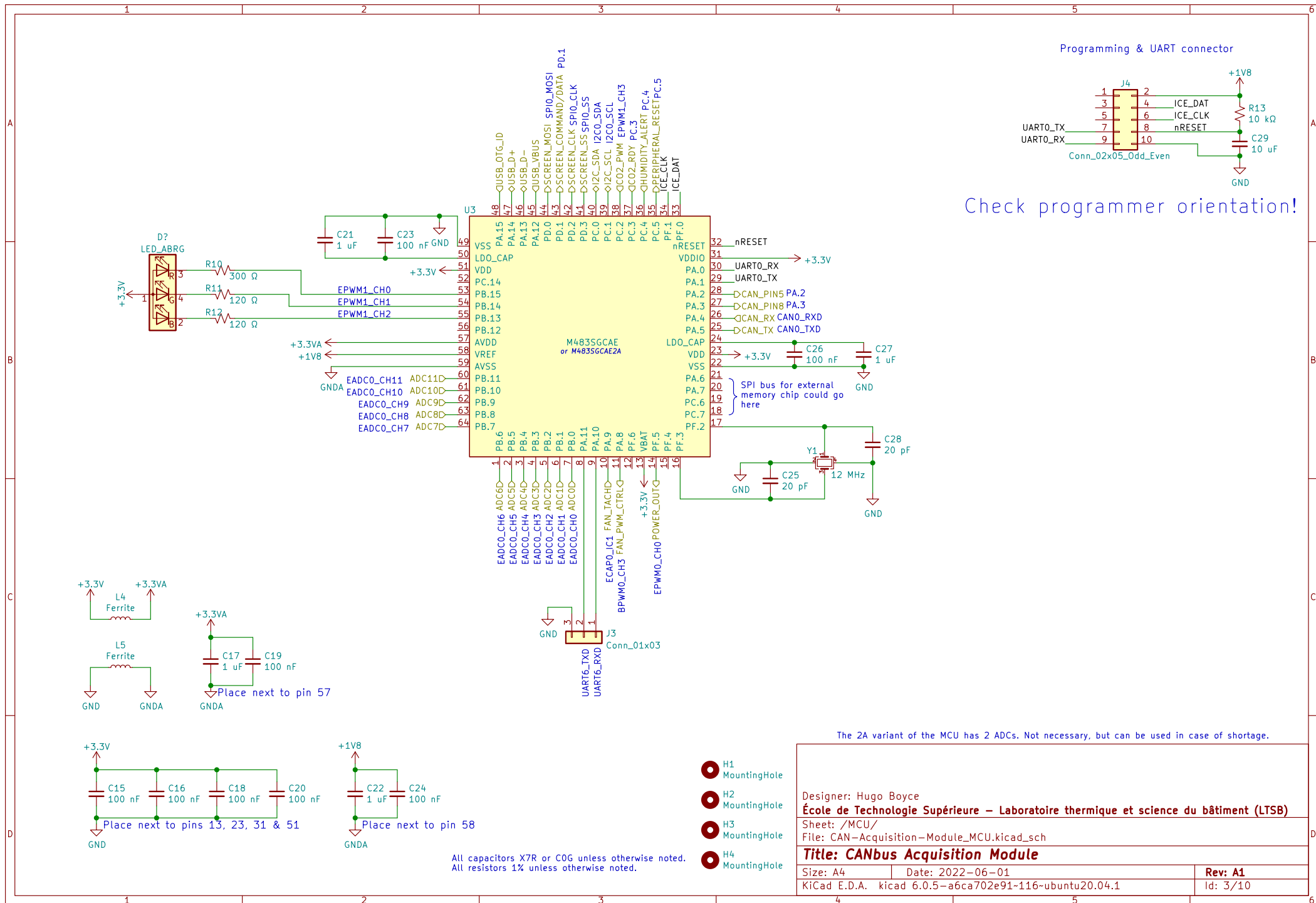
Title: CANbus Acquisition Module

Size: A4 Date: 2022-06-01

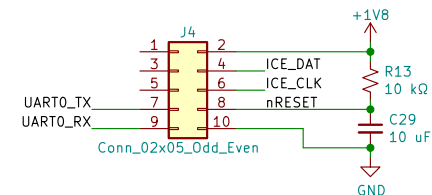
KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

Rev: A1

Id: 2/10



Programming & UART connector



Check programmer orientation!

The 2A variant of the MCU has 2 ADCs. Not necessary, but can be used in case of shortage.

- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

Designer: Hugo Boyce

École de Technologie Supérieure – Laboratoire thermique et science du bâtiment (LTSB)

Sheet: /MCU/

File: CAN-Acquisition-Module_MCU.kicad_sch

Title: CANbus Acquisition Module

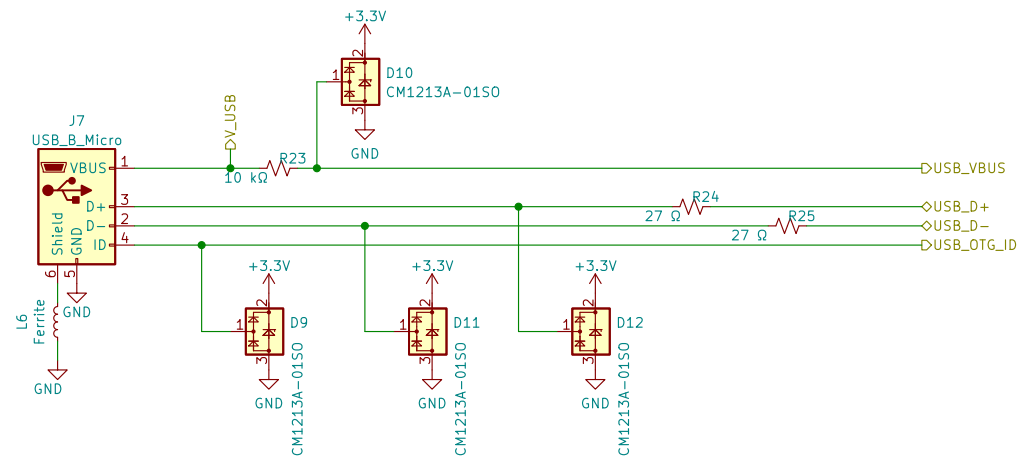
Size: A4

Date: 2022-06-01

KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

Rev: A1

Id: 3/10



All capacitors X7R or COG unless otherwise noted.
All resistors 1% unless otherwise noted.

Designer: Hugo Boyce

École de Technologie Supérieure – Laboratoire thermique et science du bâtiment (LTSB)

Sheet: /USB/

File: CAN-Acquisition-Module_USB.kicad_sch

Title: CANbus Acquisition Module

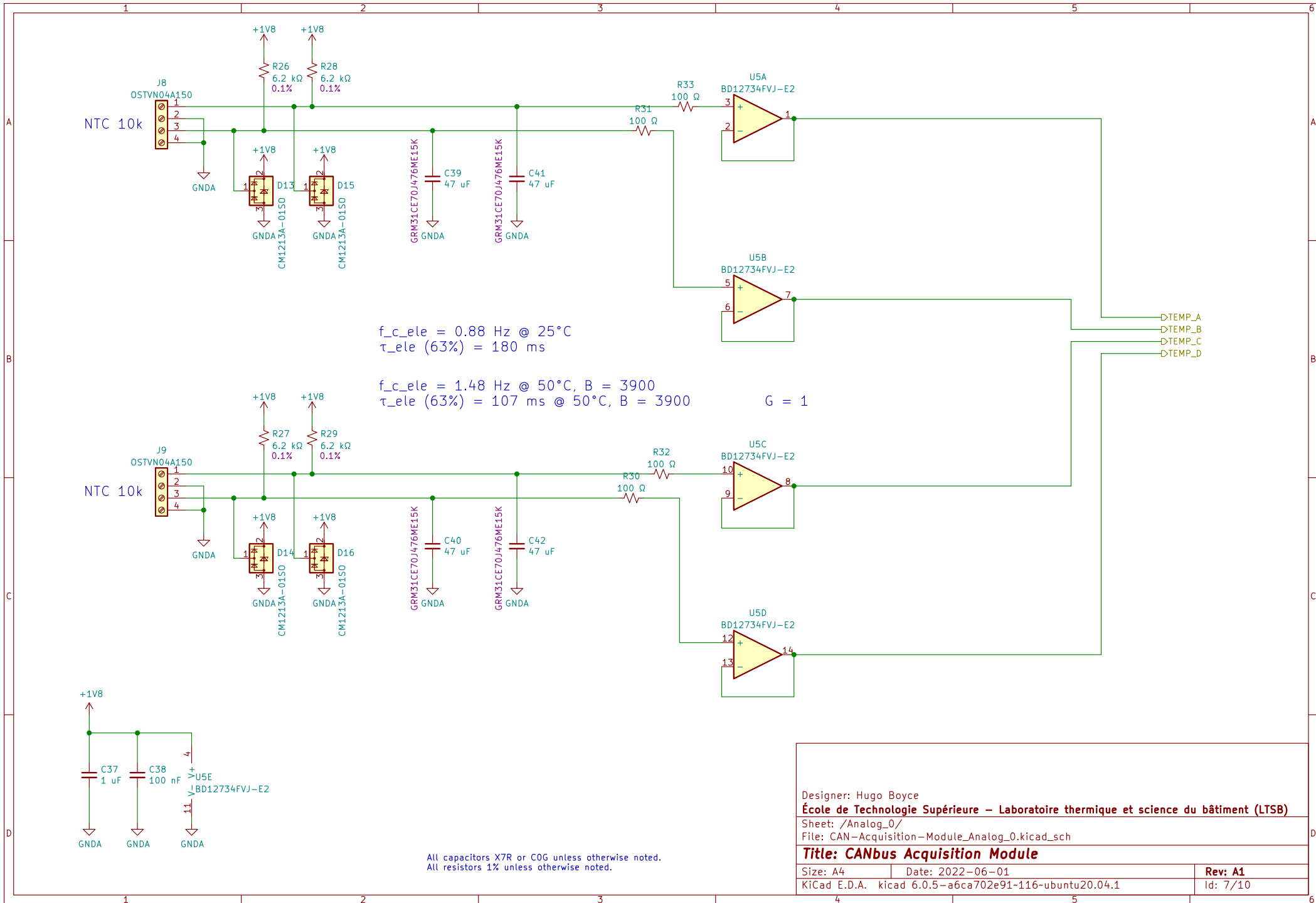
Size: A4

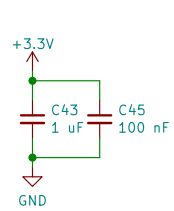
Date: 2022-06-01

Rev: A1

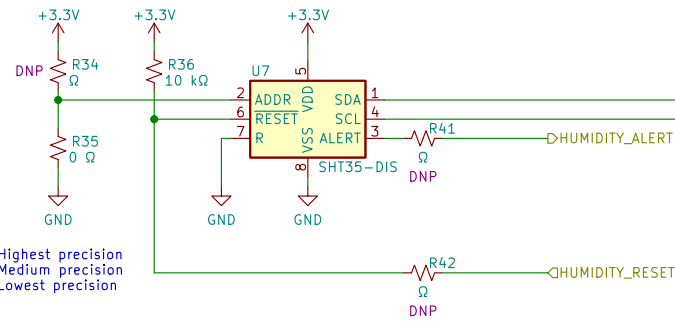
KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

Id: 5/10



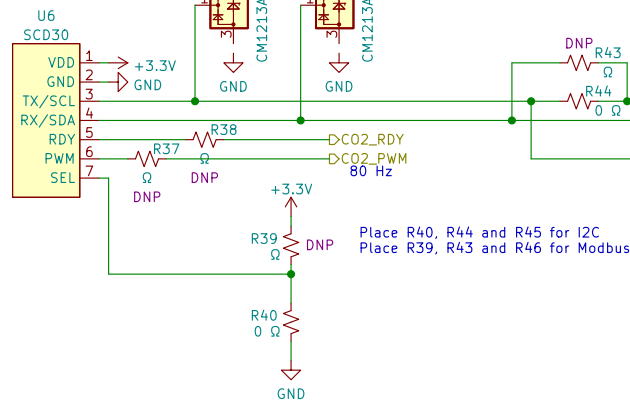
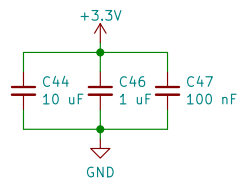


SHT35-DIS: Highest precision
SHT31-DIS: Medium precision
SHT30-DIS: Lowest precision



Standard-mode, 50 kbit/s w/ clock stretching as per Sensirion guide

Place TVSs near exposed connector



Place R40, R44 and R45 for I2C
Place R39, R43 and R46 for Modbus

Designer: Hugo Boyce

École de Technologie Supérieure – Laboratoire thermique et science du bâtiment (LTSB)

Sheet: /Sensors/

File: CAN-Acquisition-Module_Sensors.kicad_sch

Title: CANbus Acquisition Module

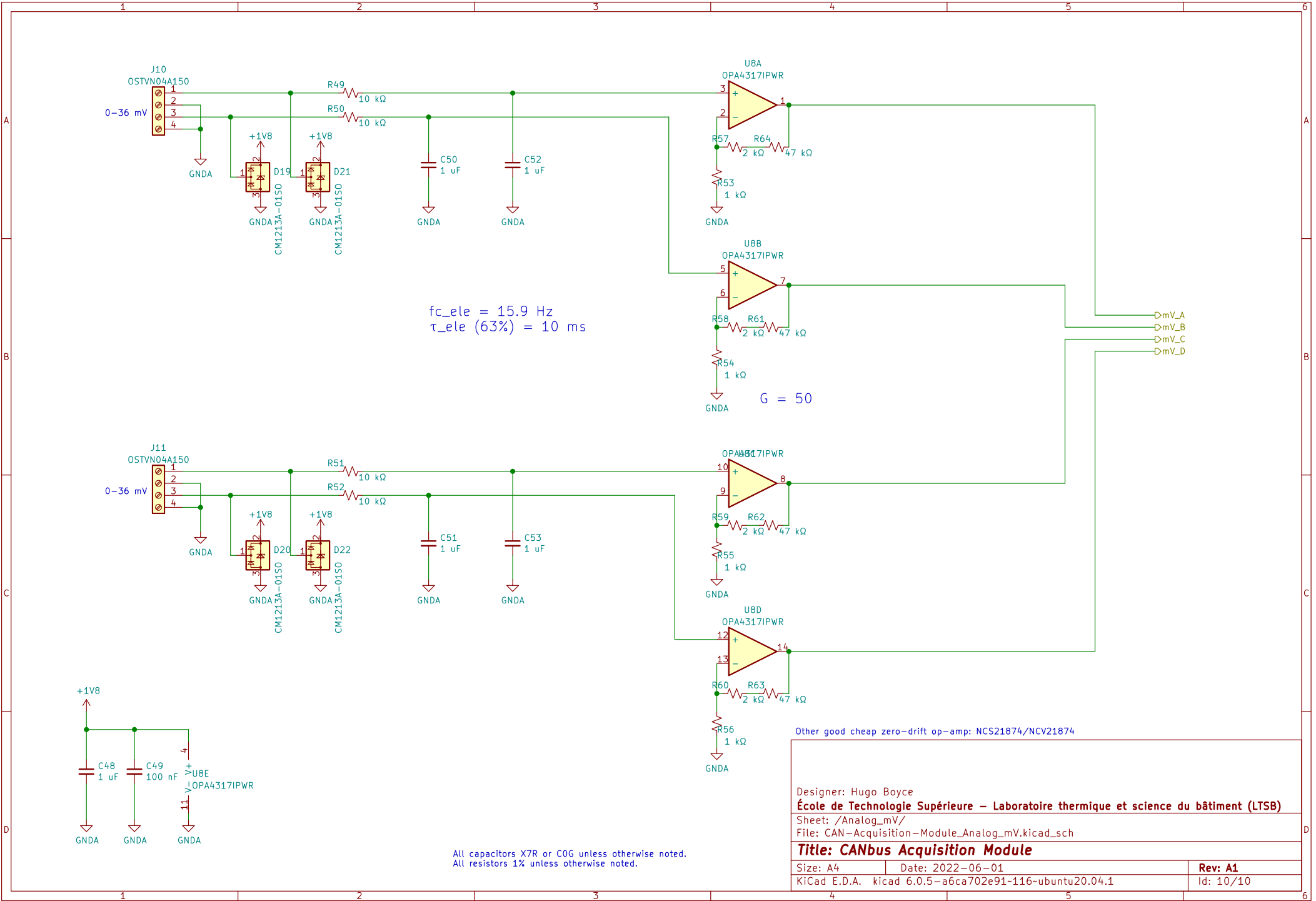
Size: A4 Date: 2022-06-01

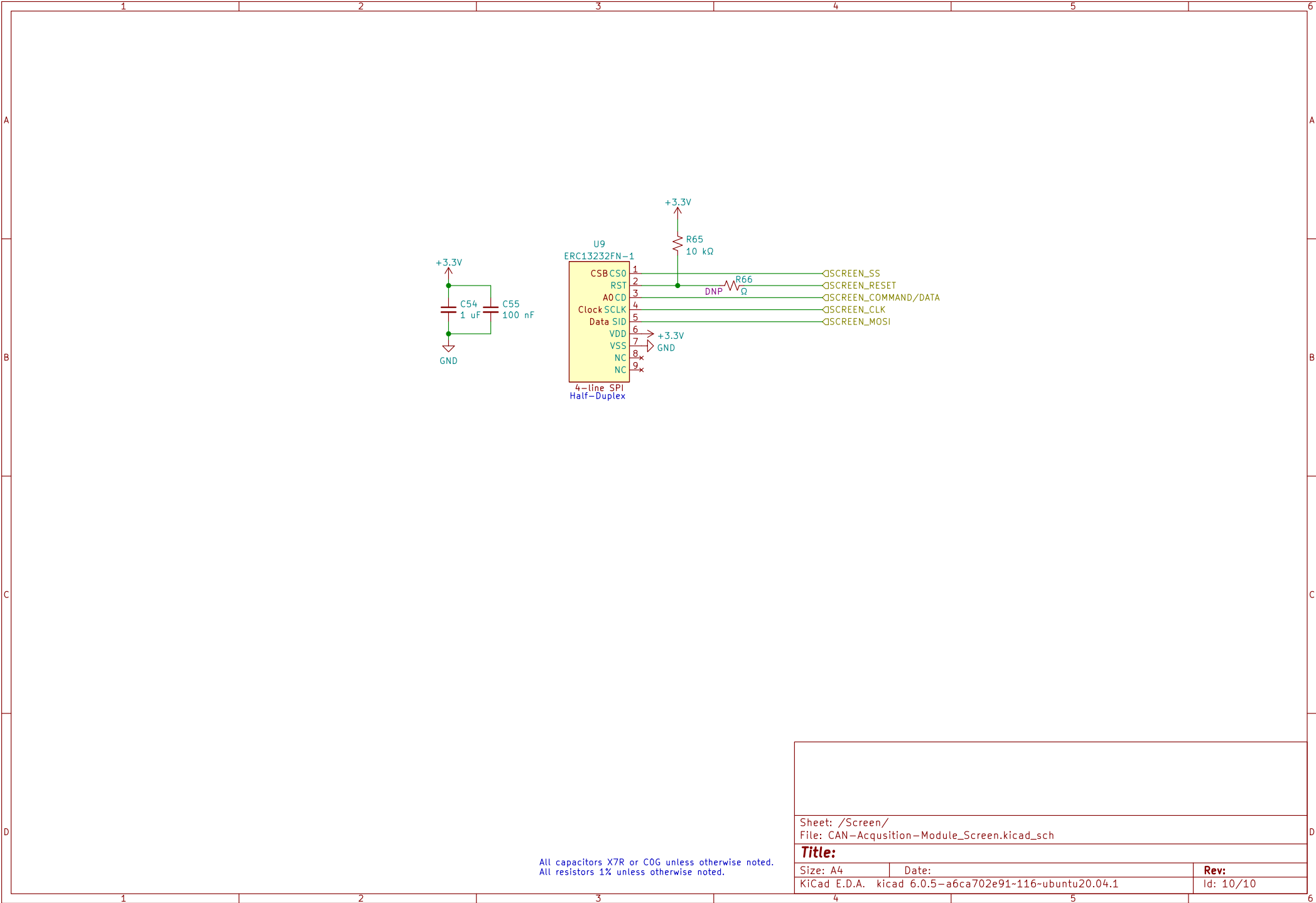
KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

Rev: A1

Id: 8/10

All capacitors X7R or COG unless otherwise noted.
All resistors 1% unless otherwise noted.





All capacitors X7R or C0G unless otherwise noted.
All resistors 1% unless otherwise noted.

Sheet: /Screen/		
File: CAN-Acquisition-Module_Screen.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1		Id: 10/10

