Servo motor stepper project (M3)

Stepper motor controller with overtemperature, overvoltage and overcurrent protection

Status reading guide:

Draft: Early stage, ignore details. Preliminary: Almost finished, could have some errors. Checked: There shouldn't be any error, inform if that isn't the case. Released: The schematic belongs to a board sent to production.

Comments reading quide:

Compatibility

Desian

Layout

user information

Status Released

Release date: 24/01/24 (DD/MM/YY)

Variation: No variations

Number of layers: 2

Micro/blind/buried vias: No

Related files: BOM, gerber files and pick and place data

Number of sheets, 1

Note: — (V3P3) This is a global scope label. Reset This is a local (sheet) scope label. Servo motor stepper (M3) V5 - 2024 - 01 - 24 (DD/MM/YY)

Mark not fitted R18 components as: 1.2R

File: M3-V5.kicad sch

Title: Servo motor stepper - M3 project

Date: 2024-01-24 Rev: V5 KiCad E.D.A. kicad 7.0.10-1.fc39 ld: 1/6

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Power block Diagram

Schematic top level

Signal block Diagram

Mechanical

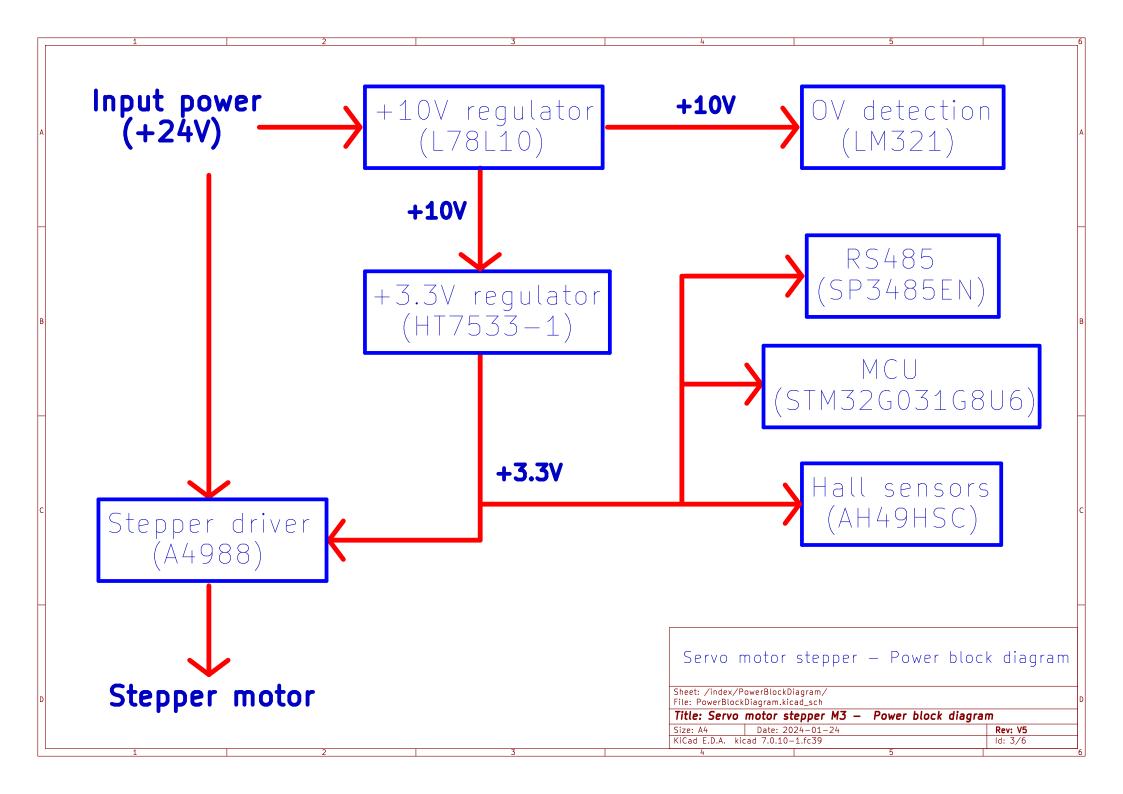
Servo motor stepper - Index

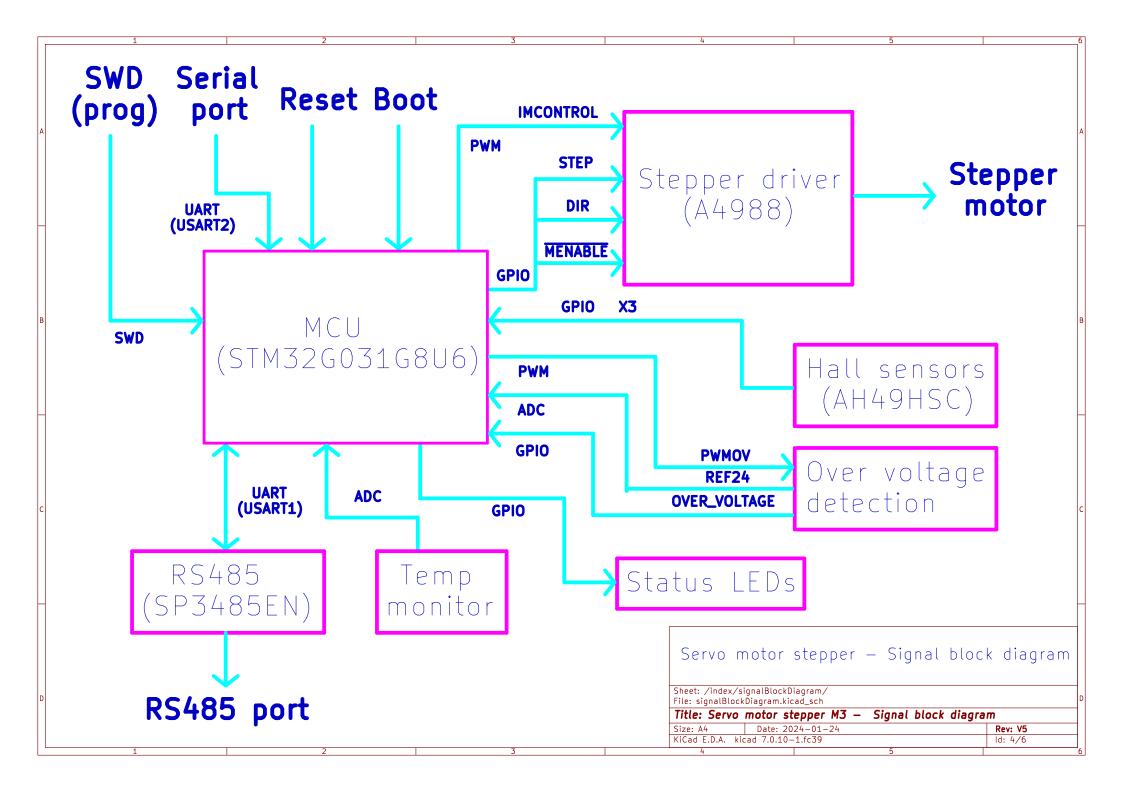
Sheet: /index/ File: index.kicad_sch

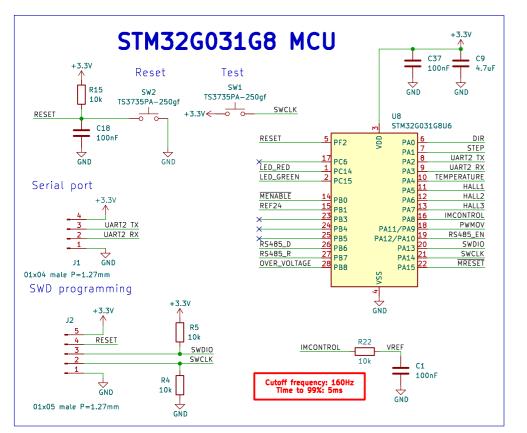
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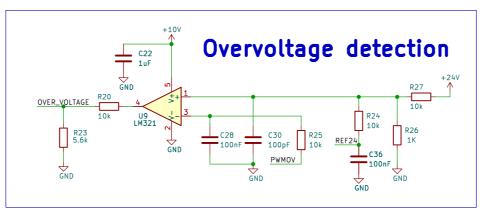
 Size: A4
 Date: 2024-01-24
 Rev: V5

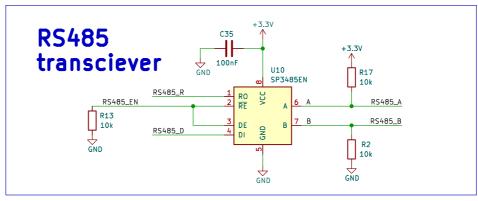
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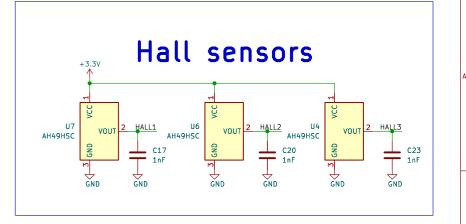


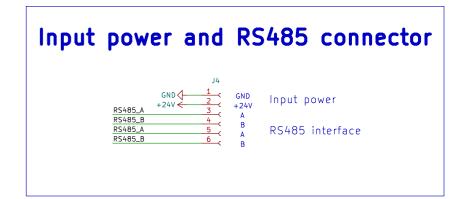




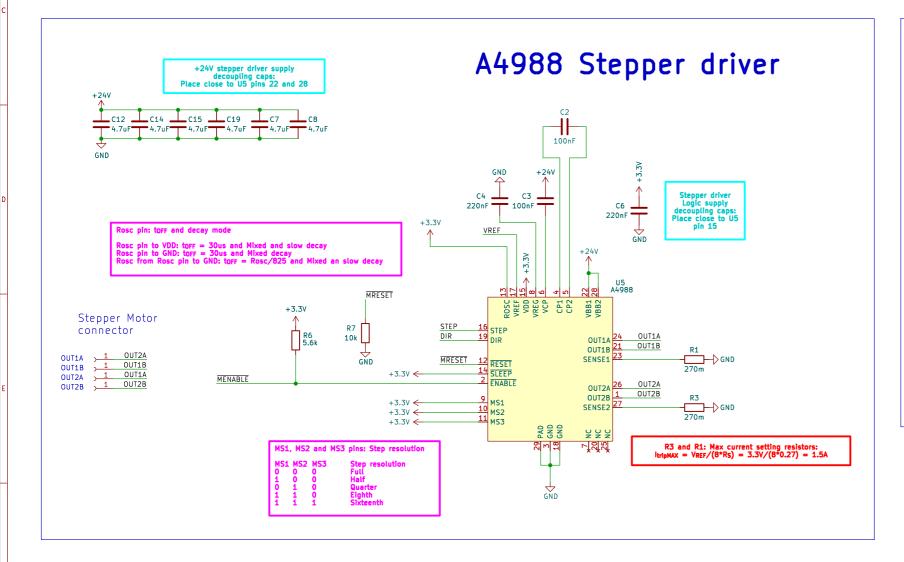


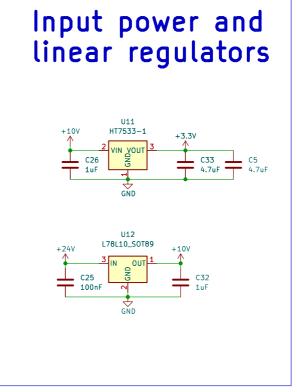


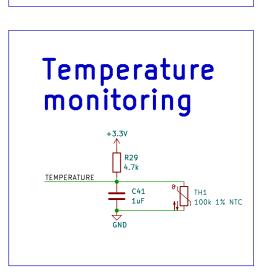




LED_RED







Status LEDs

1.5k R12 77 R11 D4 77 R11 D4

Sheet: /index/schTop/
File: schTop.kicad_sch

Title: Servo motor stepper M3 - Schematic top level

Size: A3 Date: 2024-01-24 Rev: V5
KiCad E.D.A. kicad 7.0.10-1.fc39 Id: 5/6

