

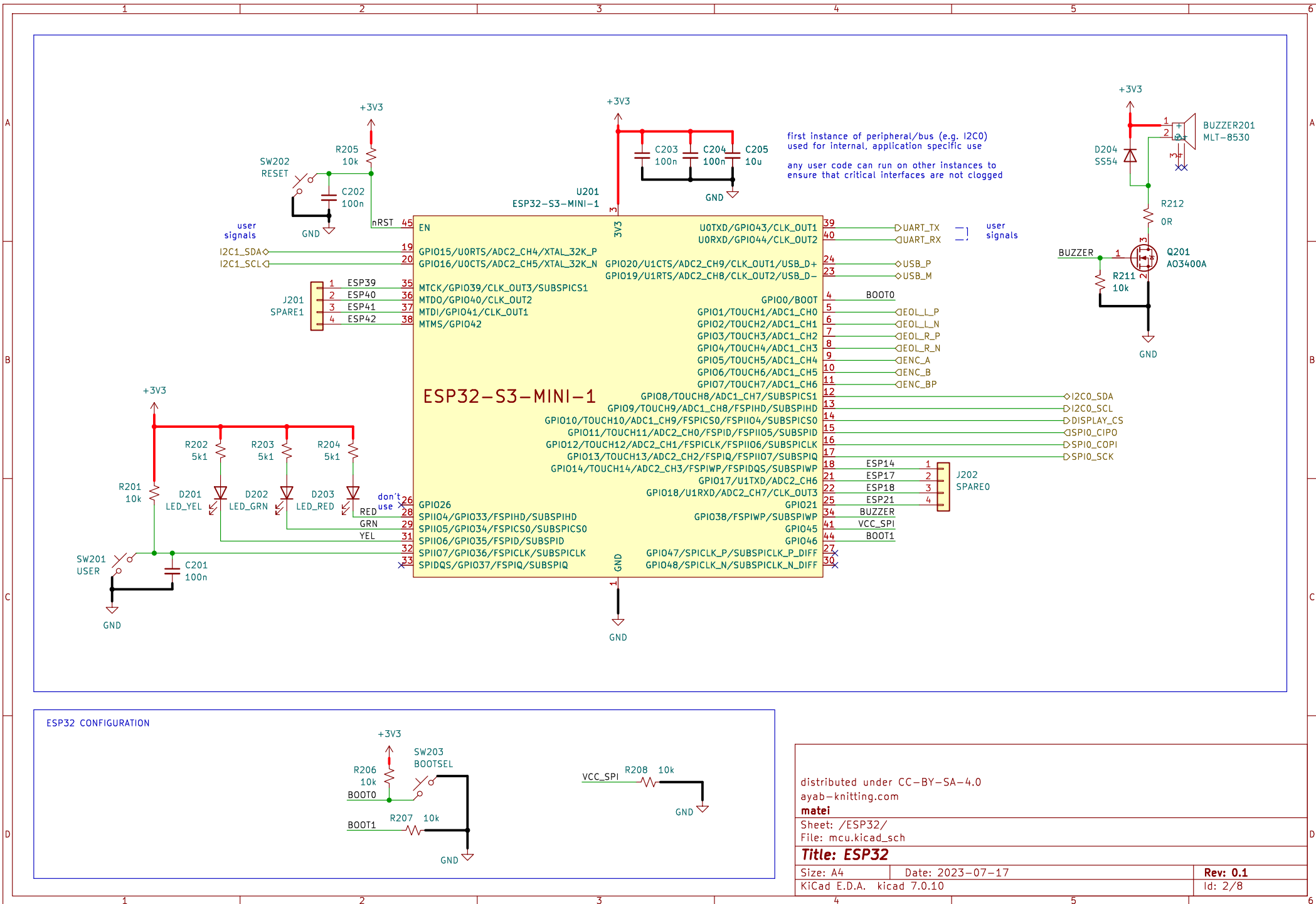
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Sheet: /
 File: ayab-esp32.kicad_sch

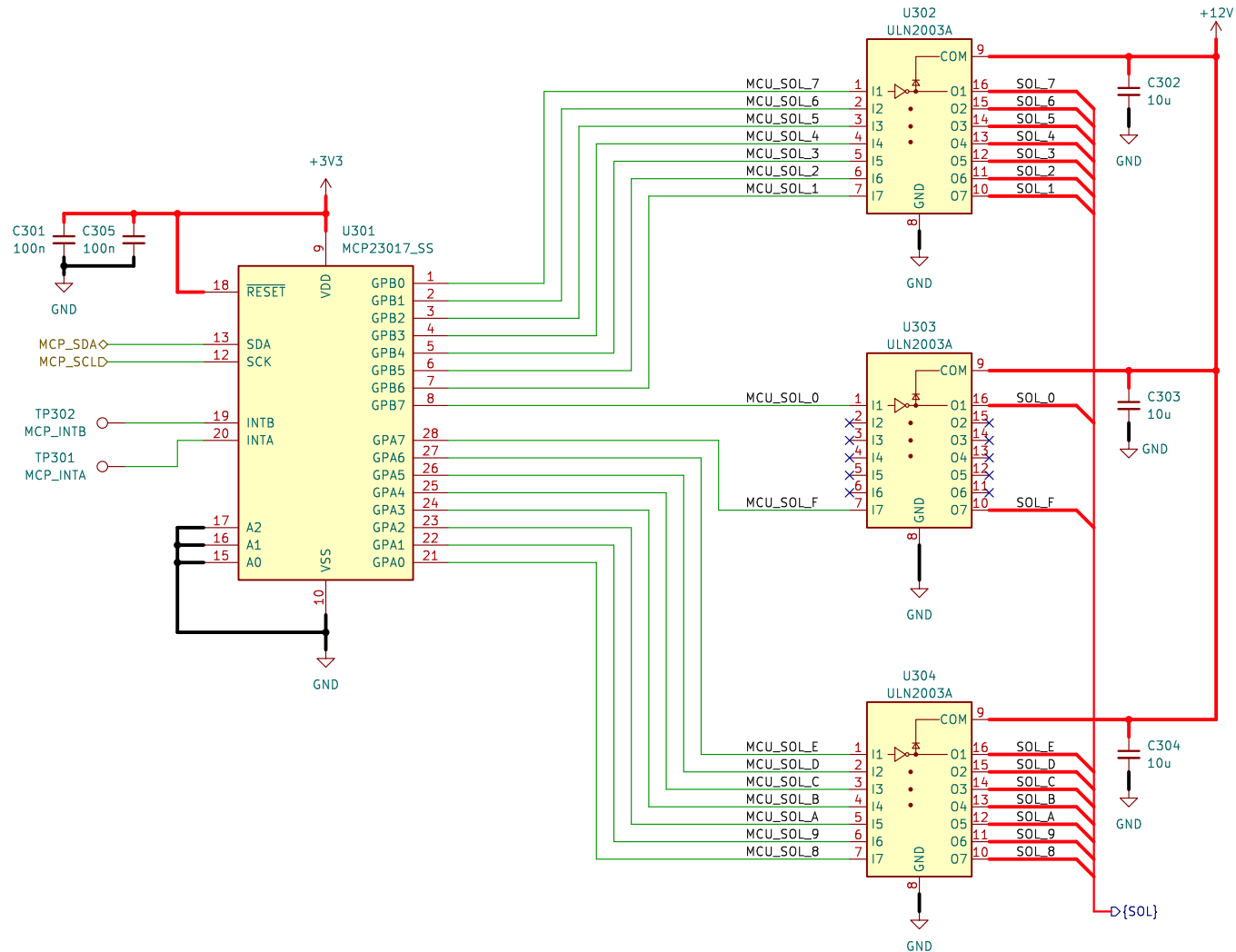
Title: AYAB-ESP32 overview

Size: A4	Date: 2023-07-17	Rev: 0.1
KiCad E.D.A. kicad 7.0.10		Id: 1/8





SOLENOID DRIVERS



unmodified machine is 26W
assuming all power is
used by solenoids - 130mA each
ULN2003A max current 500mA each output
2.5A package current max

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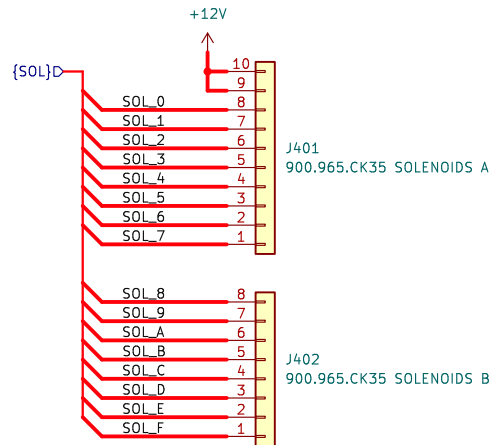
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Title: SOLENOID DRIVERS

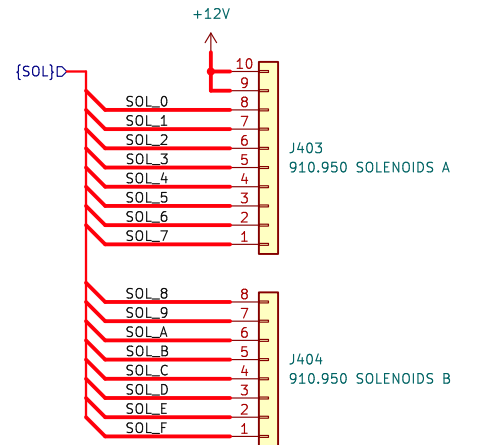
Size: A4 Date: 2023-07-17
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Rev: 0.1
Id: 3/8

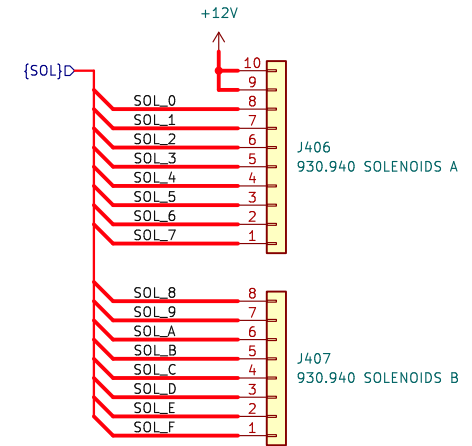
KH-900, 965, CK35



KH-910, 950



KH-930, 940



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Sheet: /BROTHER-CONNECTORS/
File: brother-connectors.kicad_sch

Title: CONNECTORS

Size: A4 Date: 2023-07-17
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not Z5U type

C614
3n3

+12V

U601
XL1509

VIN FB
EN VOUT

GND

R606 1k

R608 3k3

PWR

L601 47uH

D605
SS54

C612 220u

C616 10u

C618 10u

C620 10u

TP602
5V

5V_SW

R611 0R

PWR_FLAG

5V

GND

$V_{out} = 1.23 \cdot (R2/R1 + 1)$
 due to BOM simplification this comes out 5.25V
 but this is OK for parts used (SN74LVC4245)

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