BE-IIS-HAT++MODBUS-I2C-Rev.B

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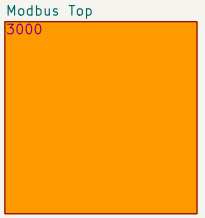

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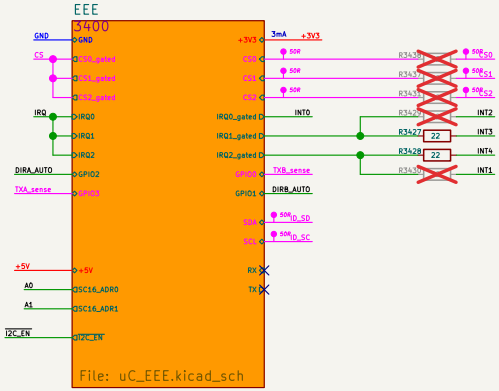
Sheet: /
File: BRECHEL_HAT_MODBUS.kicad_sch

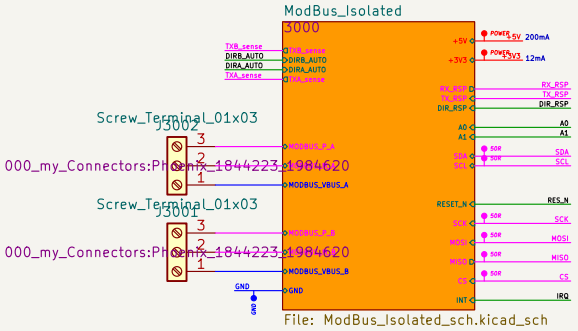
Title: BE-IIS-HAT++Modbus

Size: A4	Date: 2026-03-25	**Rev: B – final**
KiCad E.D.A. 10.0.3		Id: 1/10

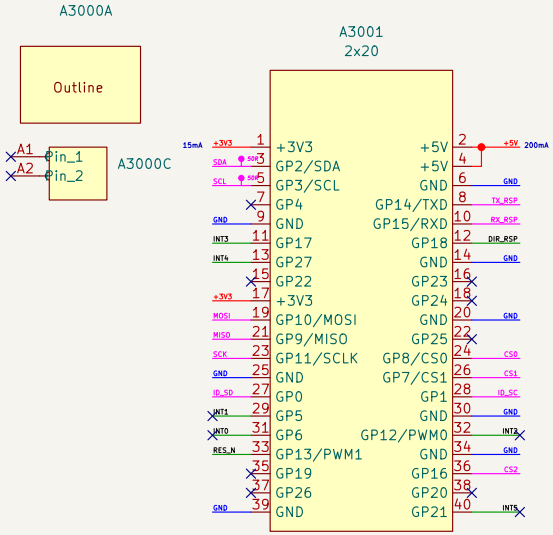
HAT+ EEprom



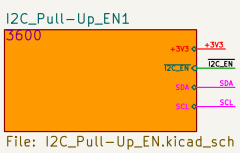
Modbus

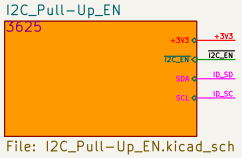


Pi Pinout



I2C Pullups





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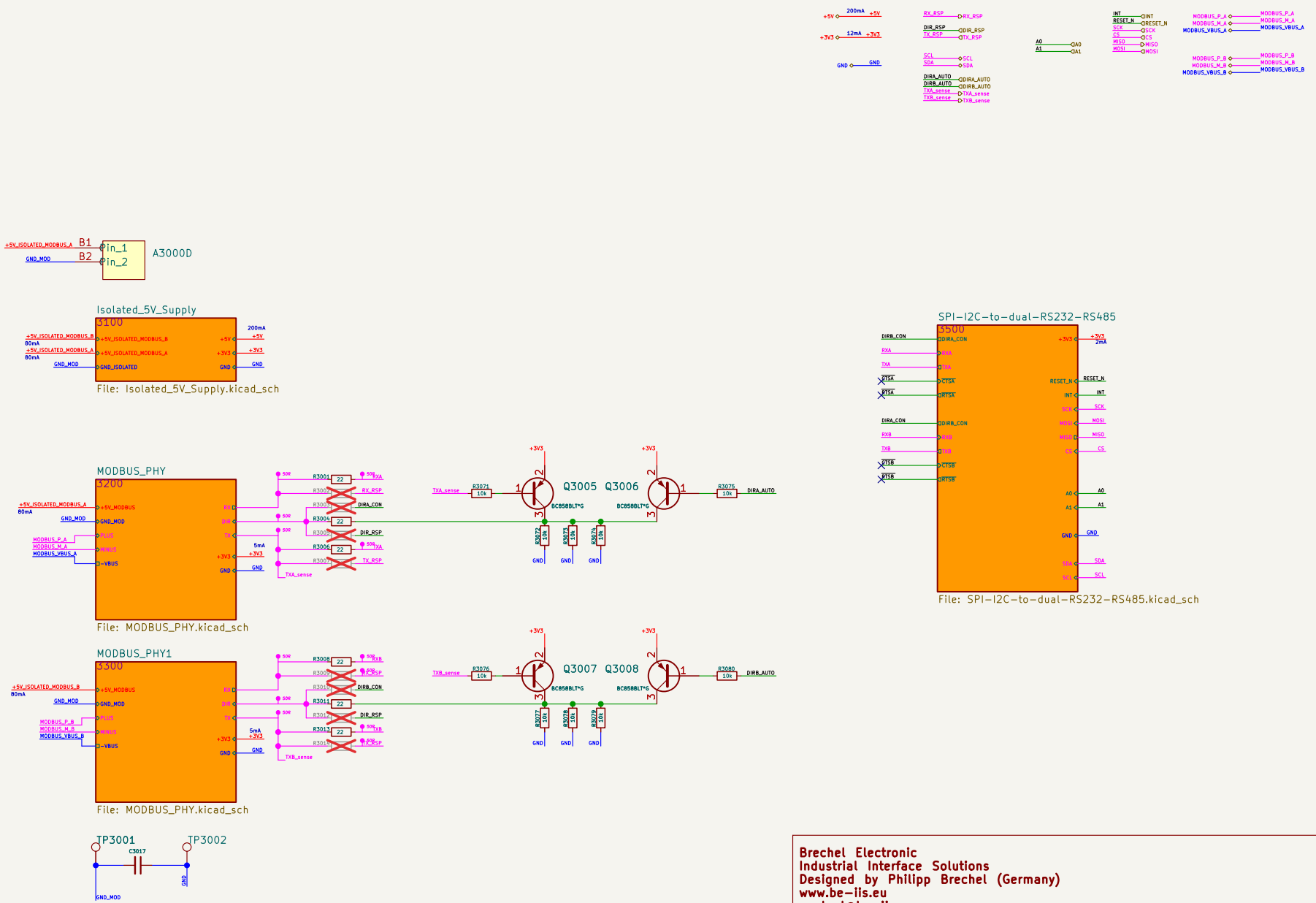
Sheet: /Modbus Top/
File: Modbus_top.kicad_sch

Title: Pi-HAT+: MODBUS

Size: A4	Date: 2026-03-25	**Rev: B - final**
KiCad E.D.A. 10.0.3		Id: 11/10



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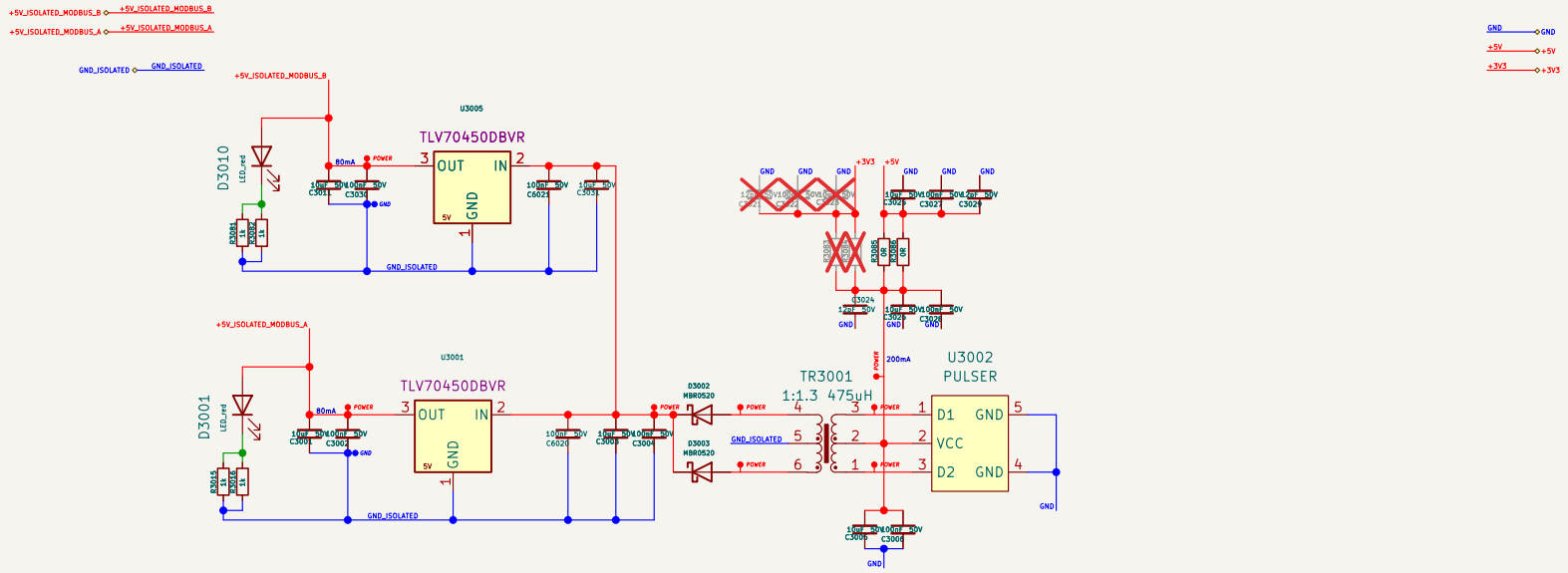
Sheet: /Modbus Top/ModBus_Isolated/
File: ModBus_Isolated_sch.kicad_sch

Title: Pi-HAT+: MODBUS

Size: A4	Date: 2026-03-25	**Rev: B – final**
KiCad E.D.A. 10.0.3		Id: 3/10



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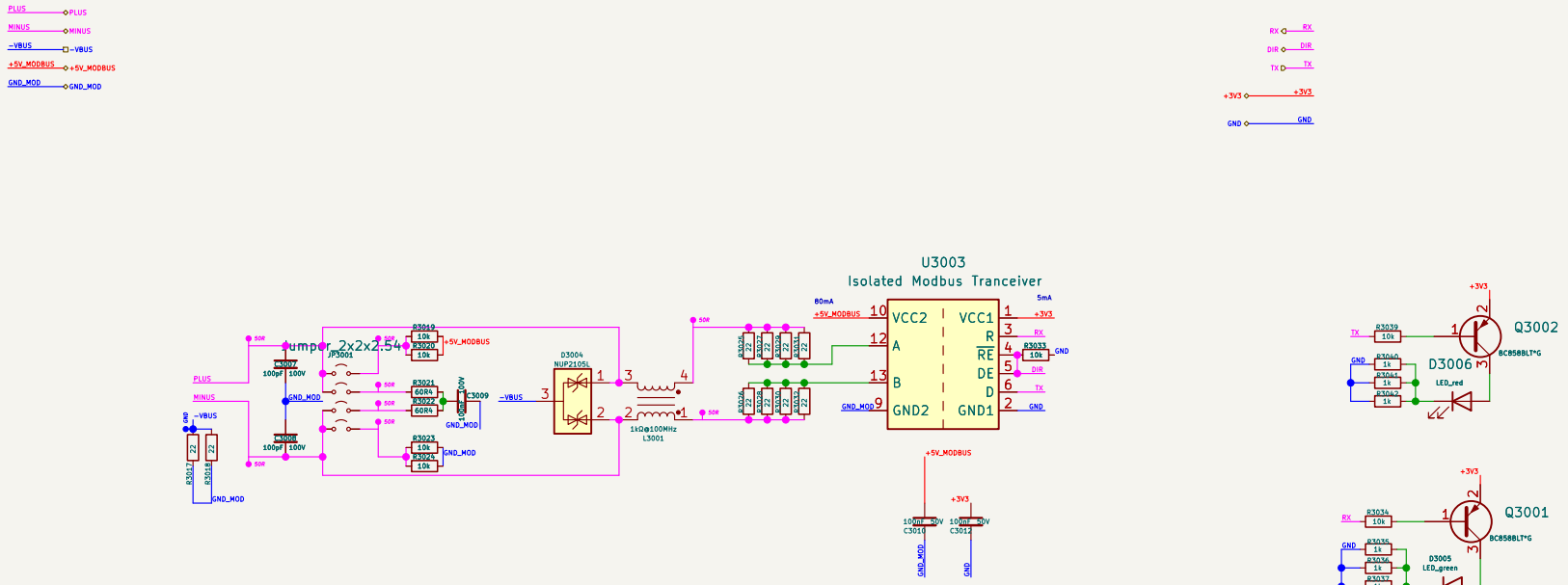
Sheet: /Modbus Top/ModBus_Isolated/Isolated_5V_Supply/
File: Isolated_5V_Supply.kicad_sch

Title: Pi-HAT+: isolated 5V supply

Size: A4	Date: 2026-03-25	**Rev: B – final**
KiCad E.D.A. 10.0.3		Id: 22/10



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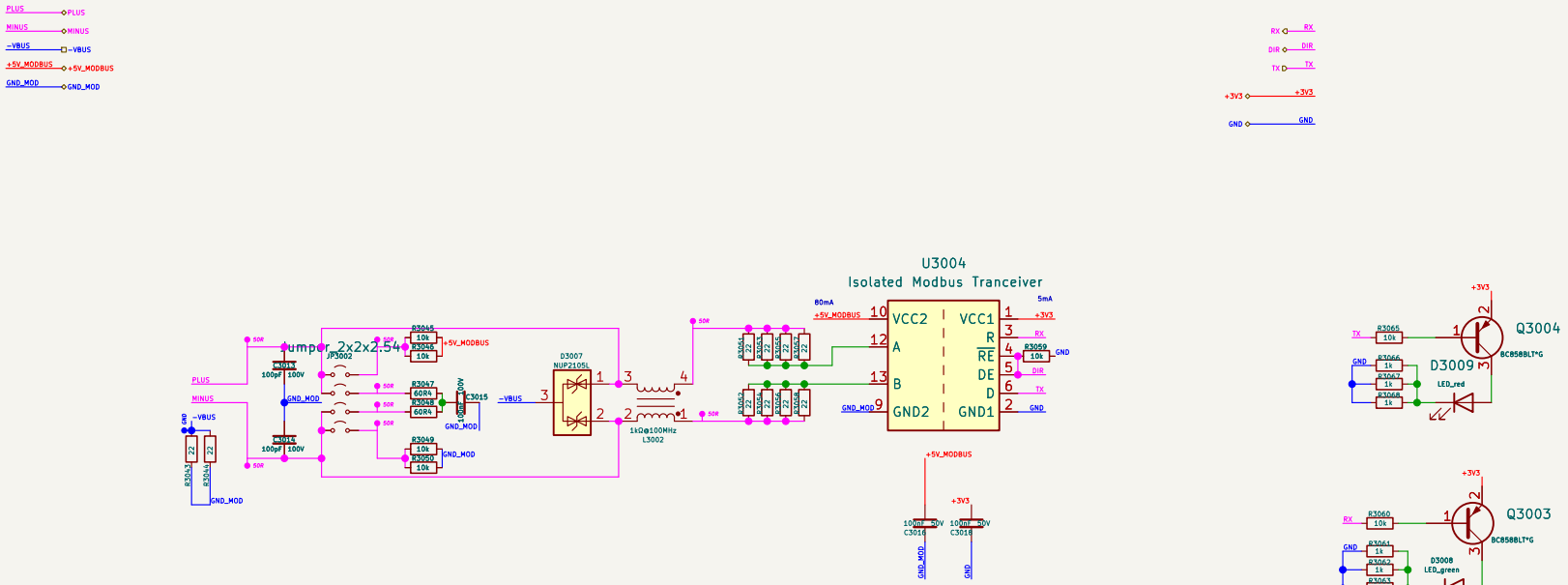
Sheet: /Modbus Top/ModBus_Isolated/MODBUS_PHY/
File: MODBUS_PHY.kicad_sch

Title: Pi-HAT+: MODBUS - PHY

Size: A4	Date: 2026-03-25	**Rev: B - final**
KiCad E.D.A. 10.0.3		Id: 23/10



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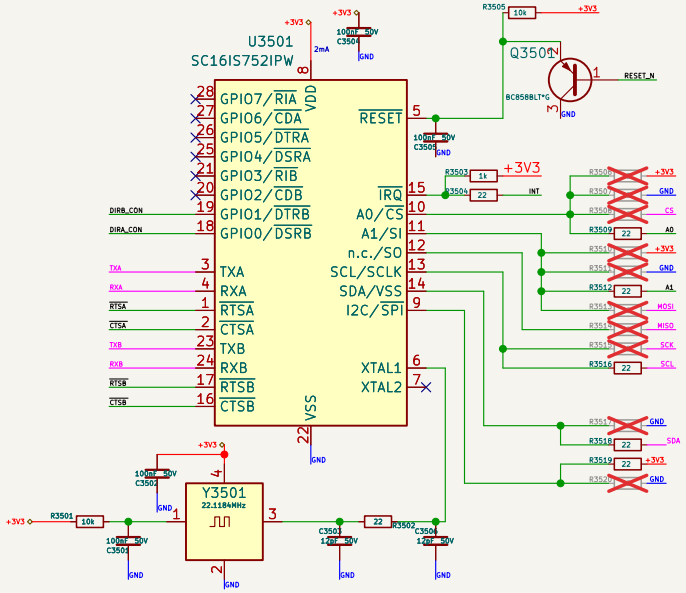
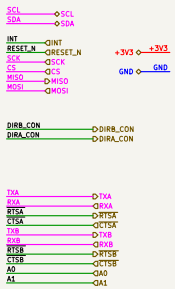
Sheet: /Modbus Top/ModBus_Isolated/MODBUS_PHY1/
File: MODBUS_PHY.kicad_sch

Title: Pi-HAT+: MODBUS - PHY

Size: A4	Date: 2026-03-25	**Rev: B - final**
KiCad E.D.A. 10.0.3		Id: 24/10





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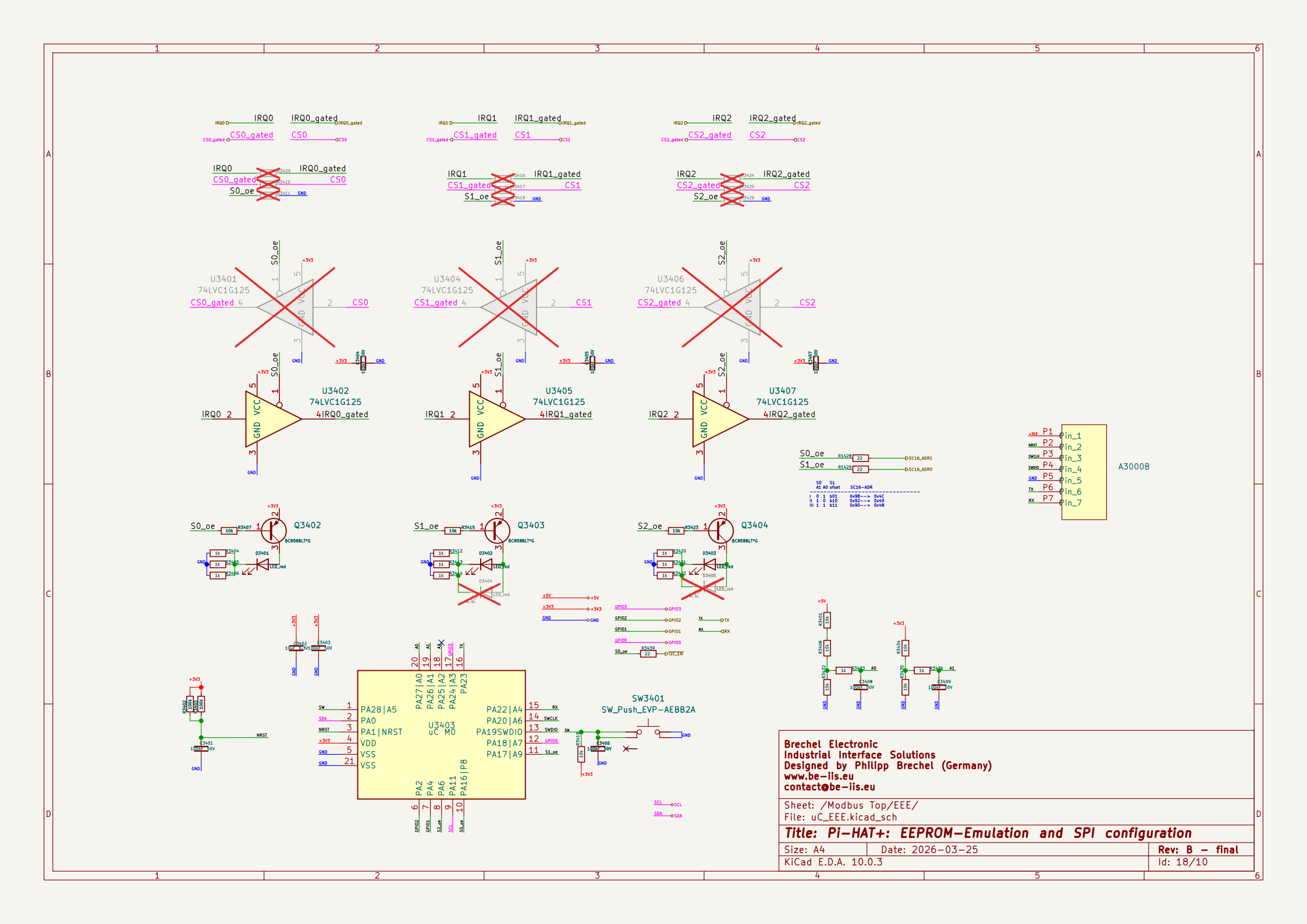
Sheet: /Modbus Top/ModBus_Isolated/SPI-I2C-to-dual-RS232-RS485/
File: SPI-I2C-to-dual-RS232-RS485.kicad_sch

Title: Pi-HAT+: Serial to RS232/RS485

Size: A4	Date: 2026-03-25	**Rev: B - final**
KiCad E.D.A. 10.0.3		Id: 26/10


IRQ0
IRQ0_gated
CS0_gated
CS0
IRQ1
IRQ1_gated
CS1_gated
CS1
IRQ2
IRQ2_gated
CS2_gated
CS2
S0_oe
S1_oe
S2_oe
U3401
74LVC1G125
U3402
U3404
U3405
U3406
U3407
Q3402
Q3403
Q3404
BC858BLT*G
LED_red
U3403
uC M0
SW3401
SW_Push_EVP-AEBB2A
A3000B
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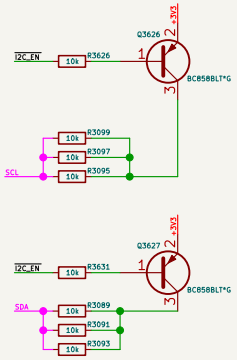
Sheet: /Modbus Top/EEE/
File: uC_EEE.kicad_sch
Title: Pi-HAT+: EEPROM-Emulation and SPI configuration
Size: A4
Date: 2026-03-25
Rev: B - final
KiCad E.D.A. 10.0.3
Id: 18/10



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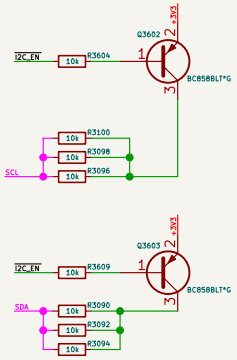
Sheet: /Modbus Top/I2C_Pull-Up_EN/
File: I2C_Pull-Up_EN.kicad_sch

Title: Pi-HAT+: I2C Pull-up - switchable

Size: A4	Date: 2026-03-25	**Rev: B - final**
KiCad E.D.A. 10.0.3		Id: 29/10



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Sheet: /Modbus Top/I2C_Pull-Up_EN1/
File: I2C_Pull-Up_EN.kicad_sch

Title: Pi-HAT+: I2C Pull-up - switchable

Size: A4	Date: 2026-03-25	**Rev: B - final**
KiCad E.D.A. 10.0.3		Id: 30/10