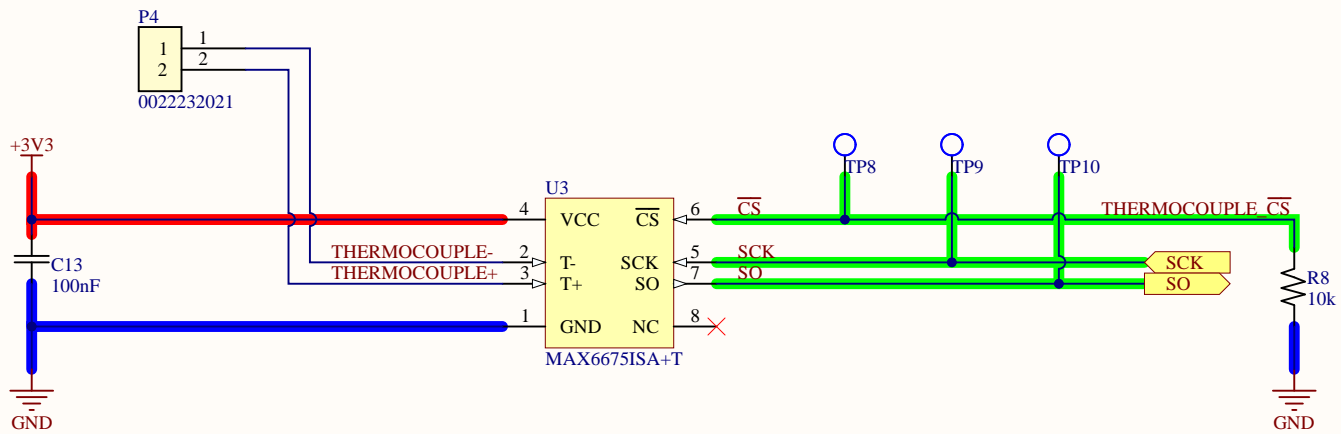
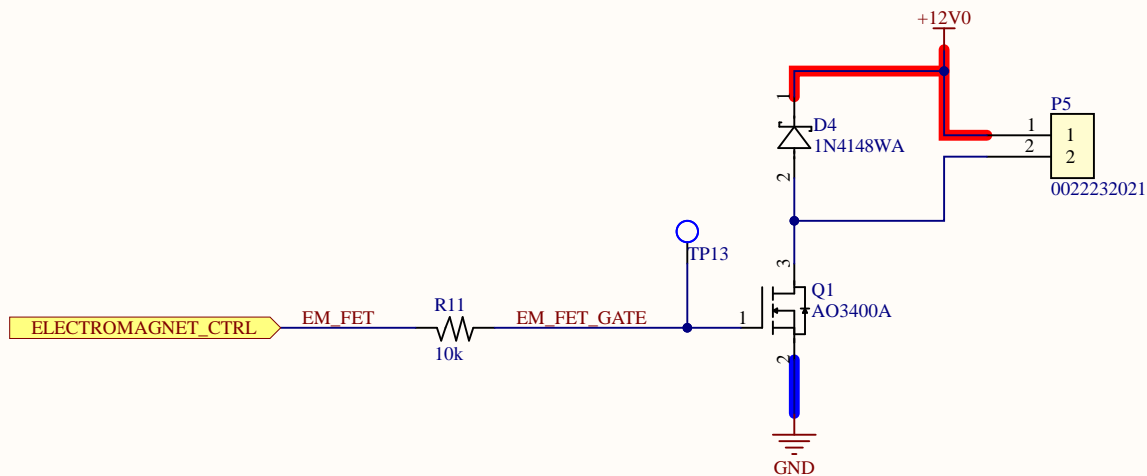
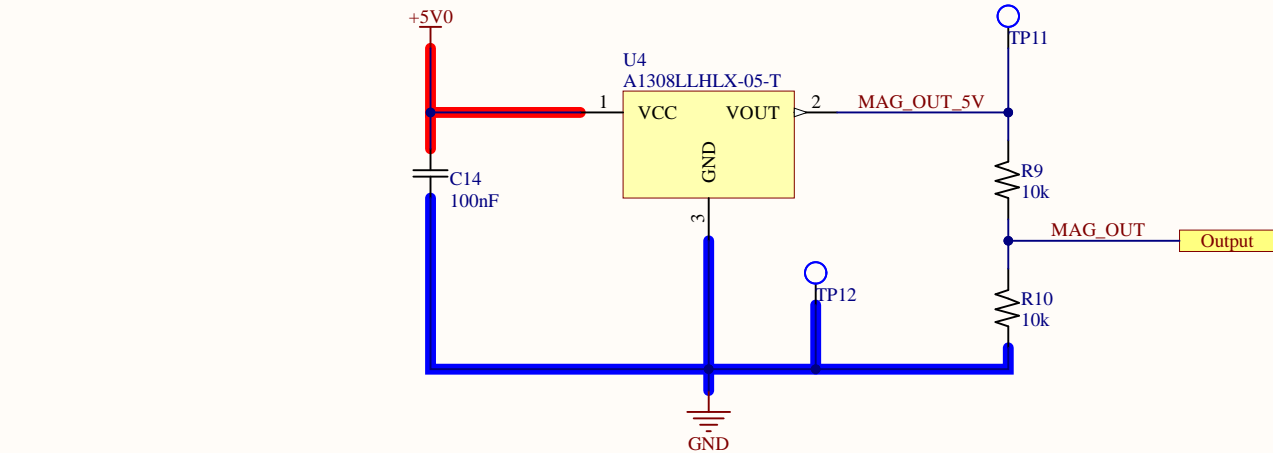


ZYLO

Project: Automated Component Testing PCB.PrjPcb		
Sheet Title: 3.3V Buck Converter.SchDoc		
Size: A	Sheet Number: 4	Revision: A
Date: 12/22/2025	Sheet Total: 19	
Time: 9:28:59 PM	Author: Hany Hamza	

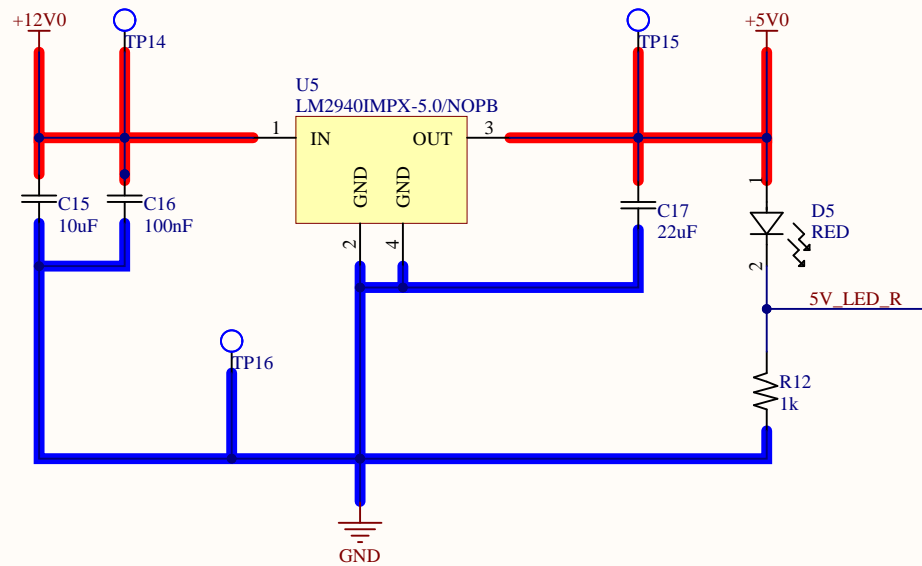


Project: Automated Component Testing PCB.PrjPcb		
Sheet Title: Thermocouple to Digital Converter.SchDoc		
Size A	Sheet Number: 5	Revision: A
Date: 12/22/2025	Sheet Total: 19	
Time: 9:28:59 PM	Author: Hany Hamza	

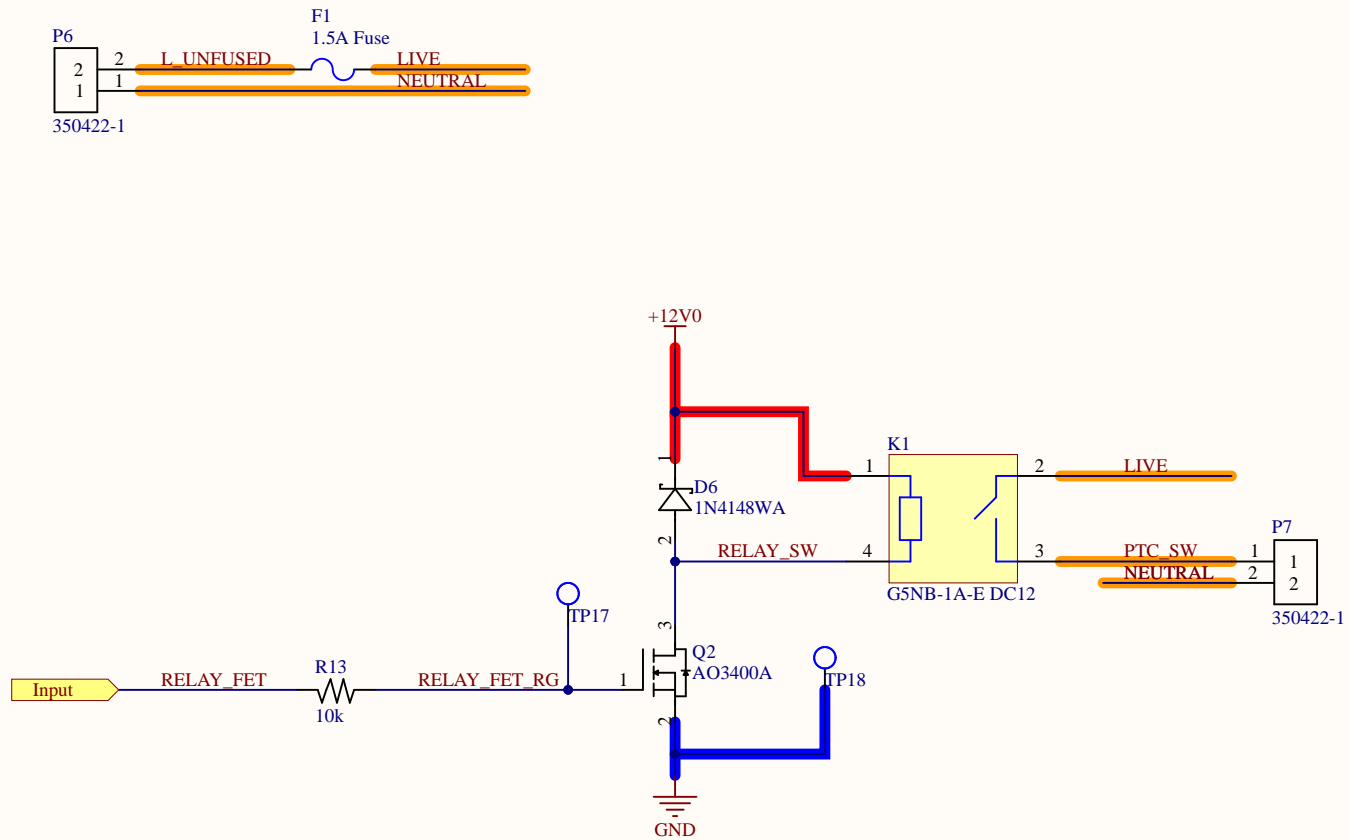


**ZY
LO**

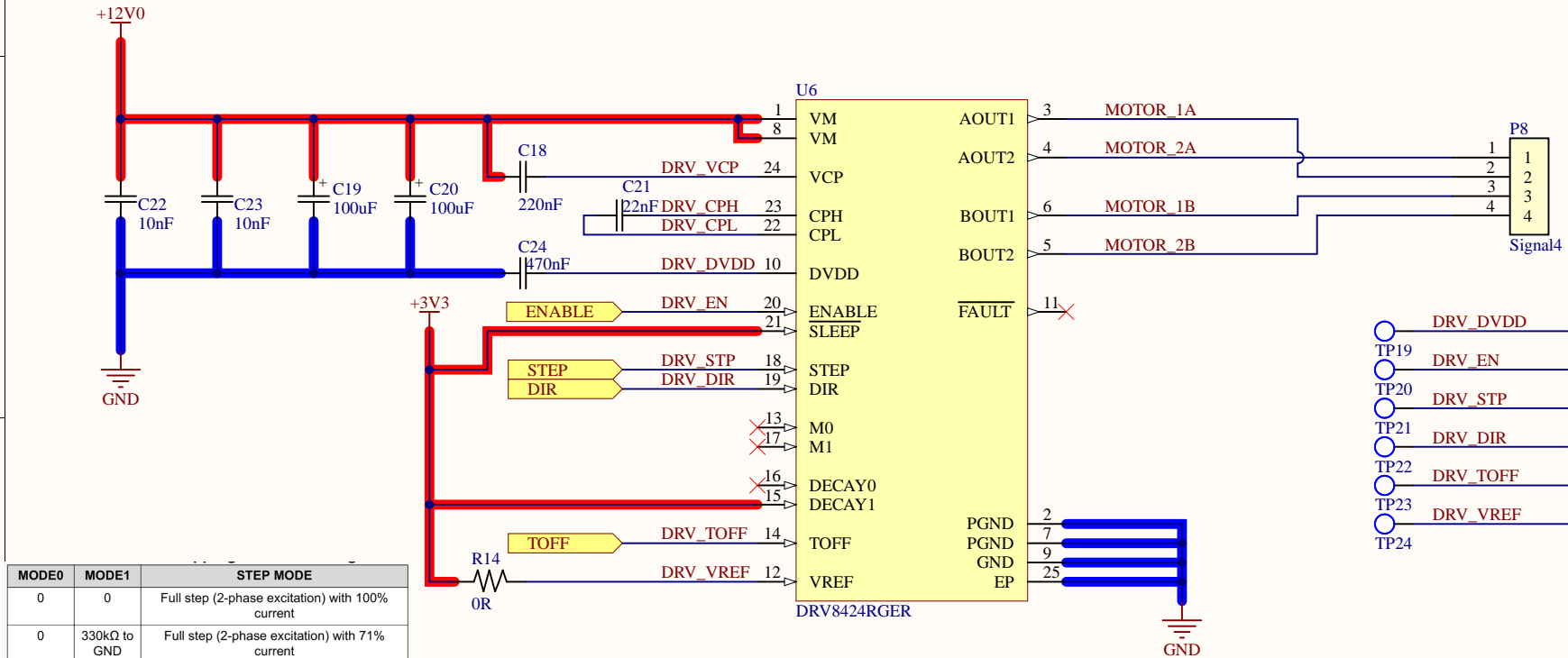
Project: Automated Component Testing PCB.PrjPcb			
Sheet Title: Magnetometer and Electromagnet Driver.SchDoc			
Size A	Sheet Number: 6		Revision: A
Date: 12/22/2025	Sheet Total: 19		
Time: 9:28:59 PM	Author: Hany Hamza		



Project: Automated Component Testing PCB.PrjPcb			
Sheet Title: 5V LDO.SchDoc			
Size A	Sheet Number: 7		Revision: A
Date: 12/22/2025	Sheet Total: 19		
Time: 9:28:59 PM	Author: Hany Hamza		



Project: Automated Component Testing PCB.PrjPcb			
Sheet Title: PTC Heater Driver.SchDoc			
Size A	Sheet Number: 8		Revision: A
Date: 12/22/2025	Sheet Total: 19		Time: 9:28:59 PM
		Author: Hany Hamza	



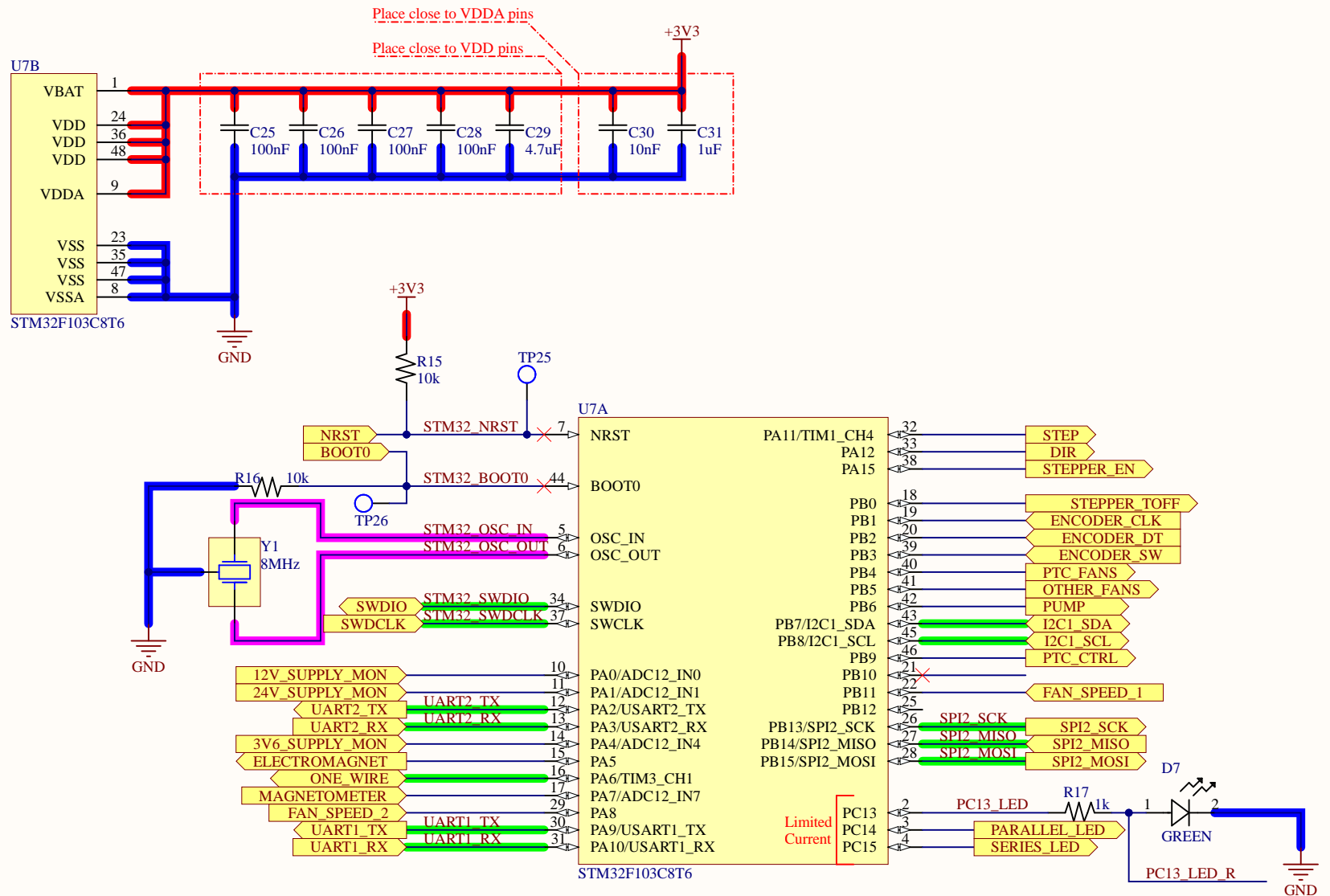
MODE0	MODE1	STEP MODE
0	0	Full step (2-phase excitation) with 100% current
0	330kΩ to GND	Full step (2-phase excitation) with 71% current
1	0	Non-circular 1/2 step
Hi-Z	0	1/2 step
0	1	1/4 step
1	1	1/8 step

MODE0	MODE1	STEP MODE
Hi-Z	1	1/16 step
0	Hi-Z	1/32 step
Hi-Z	330kΩ to GND	1/64 step
Hi-Z	Hi-Z	1/128 step
1	Hi-Z	1/256 step

DECAY0	DECAY1	INCREASING STEPS	DECREASING STEPS
0	0	Smart tune Dynamic Decay	Smart tune Dynamic Decay
0	1	Smart tune Ripple Control	Smart tune Ripple Control
1	0	Mixed decay: 30% fast	Mixed decay: 30% fast
1	1	Slow decay	Mixed decay: 30% fast
Hi-Z	0	Mixed decay: 60% fast	Mixed decay: 60% fast
Hi-Z	1	Slow decay	Slow decay



Project: Automated Component Testing PCB.PrjPcb		
Sheet Title: Stepper Driver.SchDoc		
Size: A	Sheet Number: 9	Revision: A
Date: 12/22/2025	Sheet Total: 19	
Time: 9:28:59 PM	Author: Hany Hamza	



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Project: Automated Component Testing PCB.PrjPcb

Sheet Title: STM32F103C8T6 MCU.SchDoc

Size
A

Sheet Number:
10

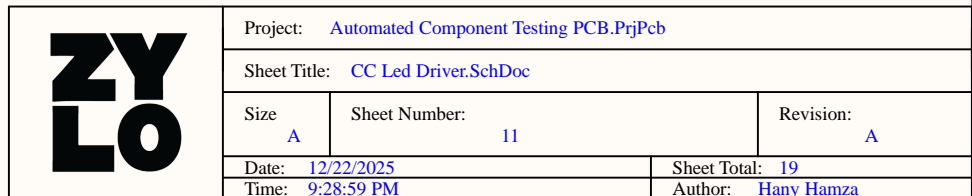
Revision:
A

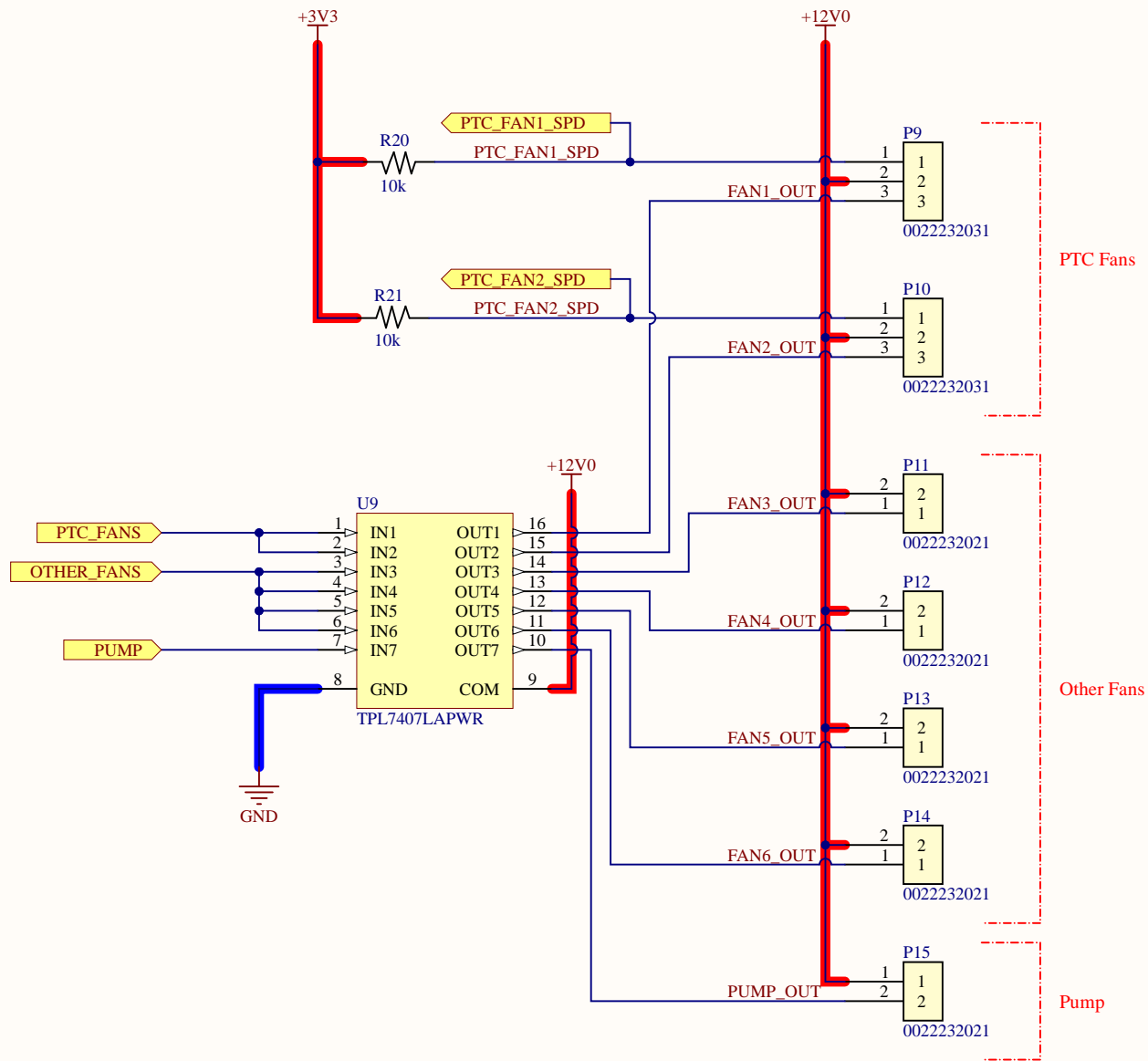
Date: 12/22/2025

Sheet Total: 19

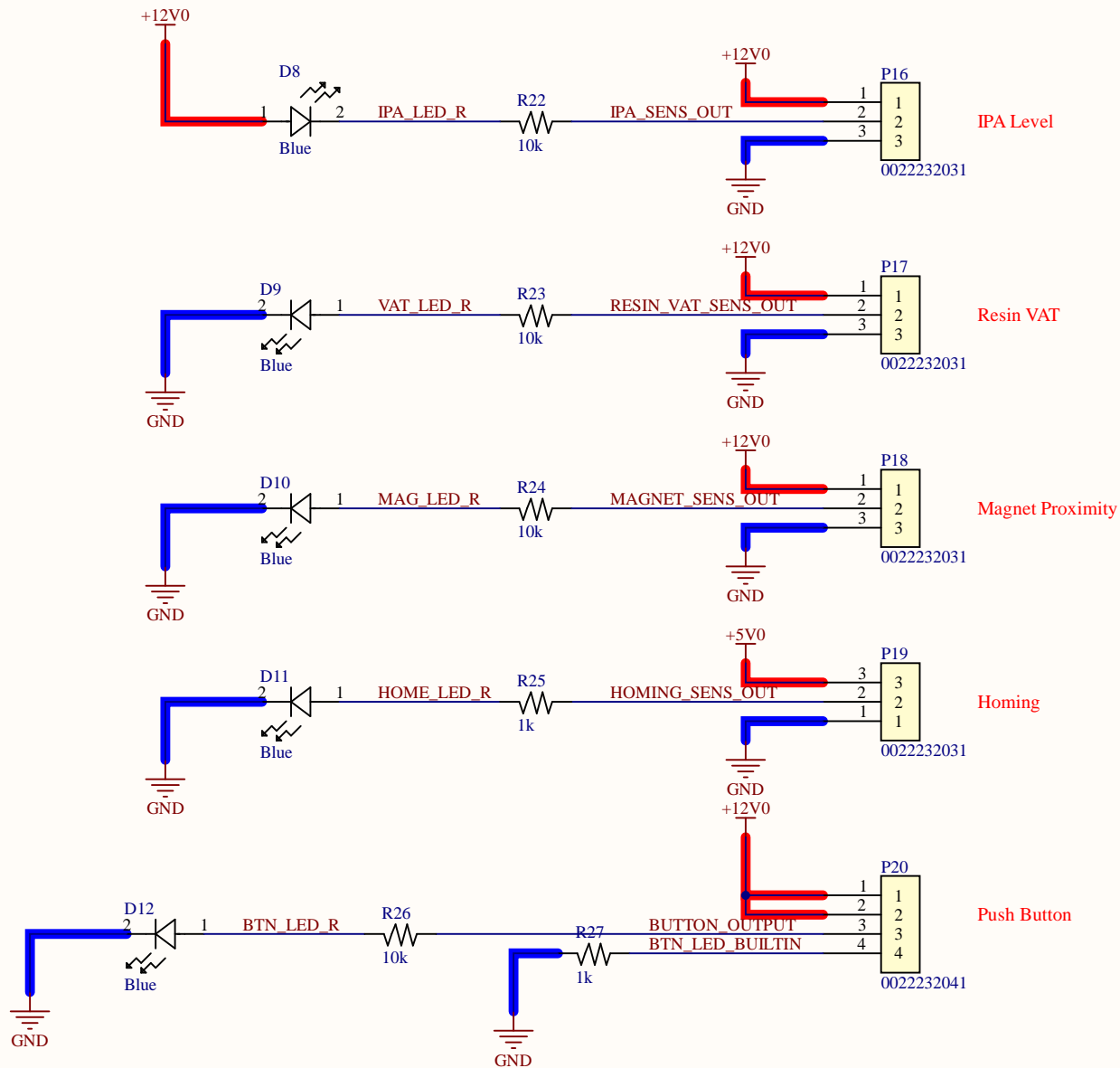
Time: 9:28:59 PM

Author: Hany Hamza

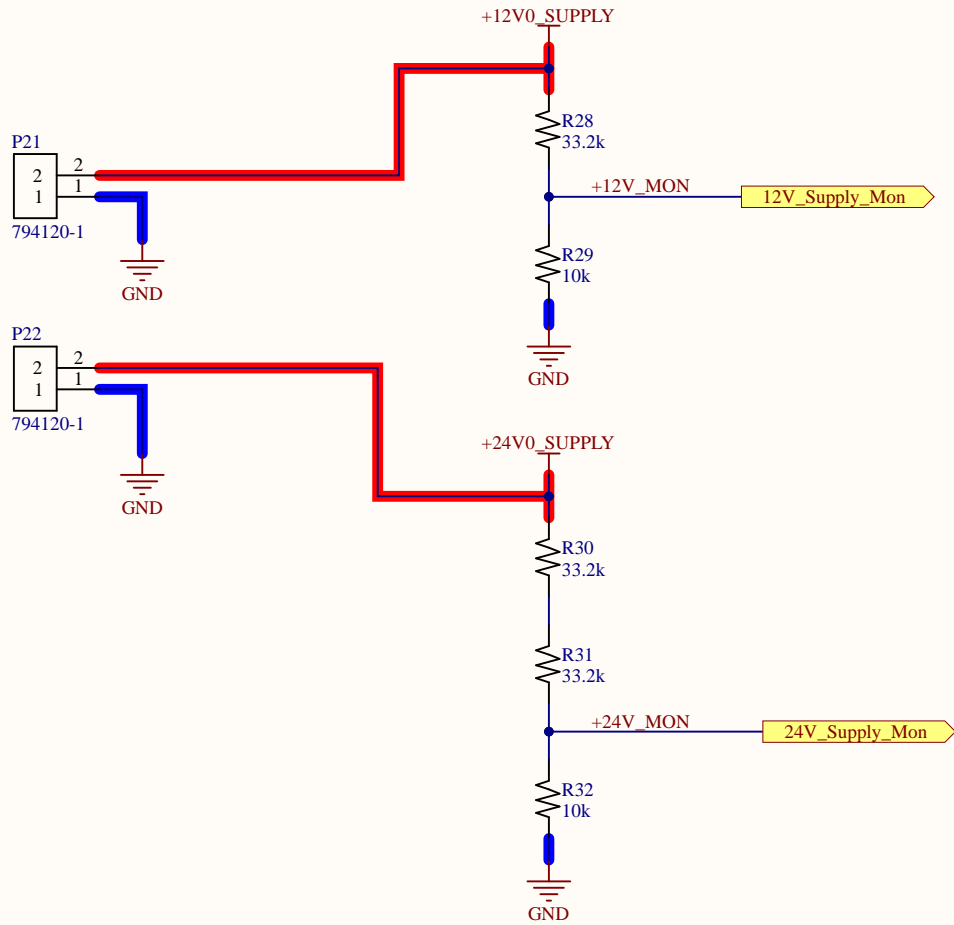




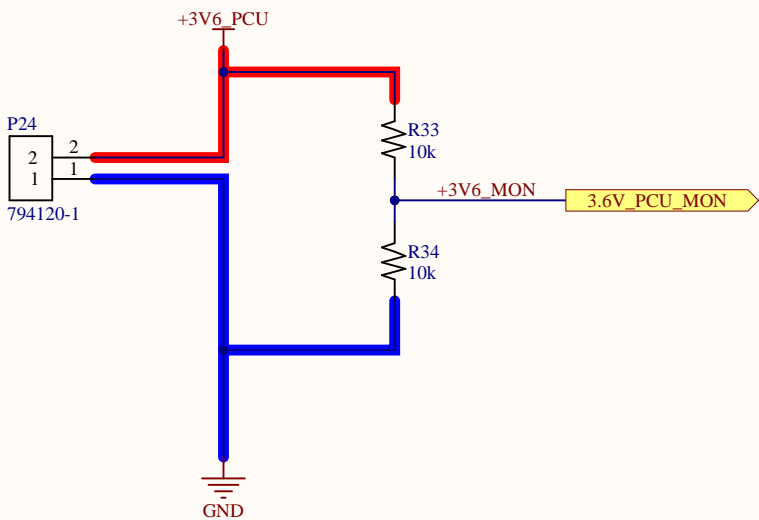
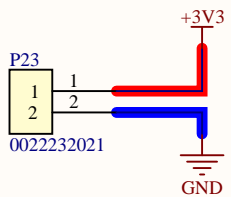
Project: Automated Component Testing PCB.PrjPcb			
Sheet Title: Fan and Pump Headers.SchDoc			
Size A	Sheet Number: 12		Revision: A
Date: 12/22/2025	Sheet Total: 19		Time: 9:29:00 PM
		Author: Hany Hamza	



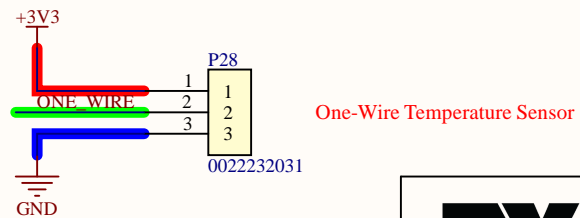
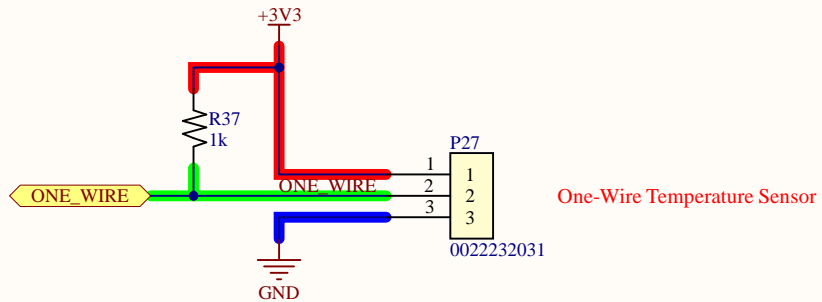
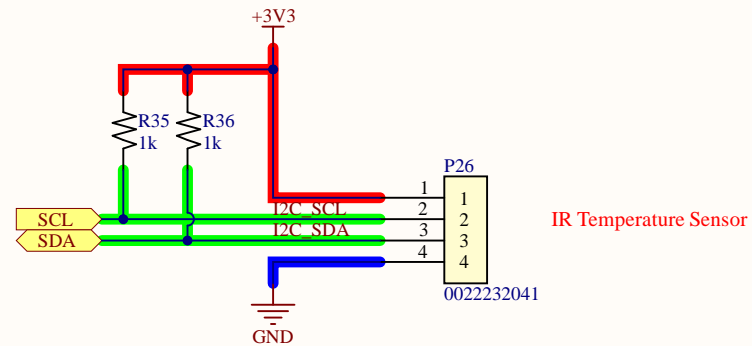
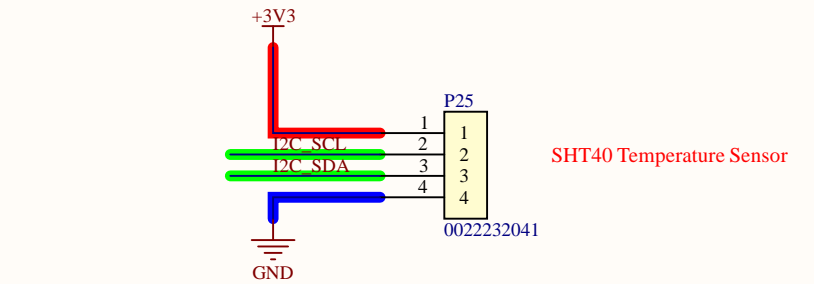
Project: Automated Component Testing PCB.PrjPcb		
Sheet Title: Sensors Test.SchDoc		
Size A	Sheet Number: 13	Revision: A
Date: 12/22/2025		Sheet Total: 19
Time: 9:29:00 PM		Author: Hany Hamza



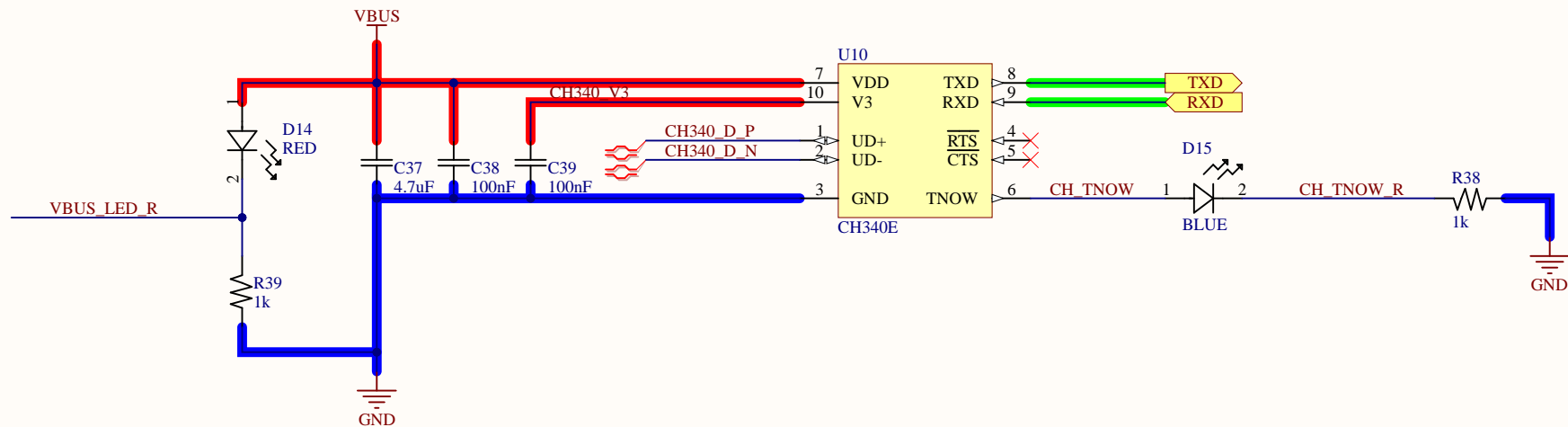
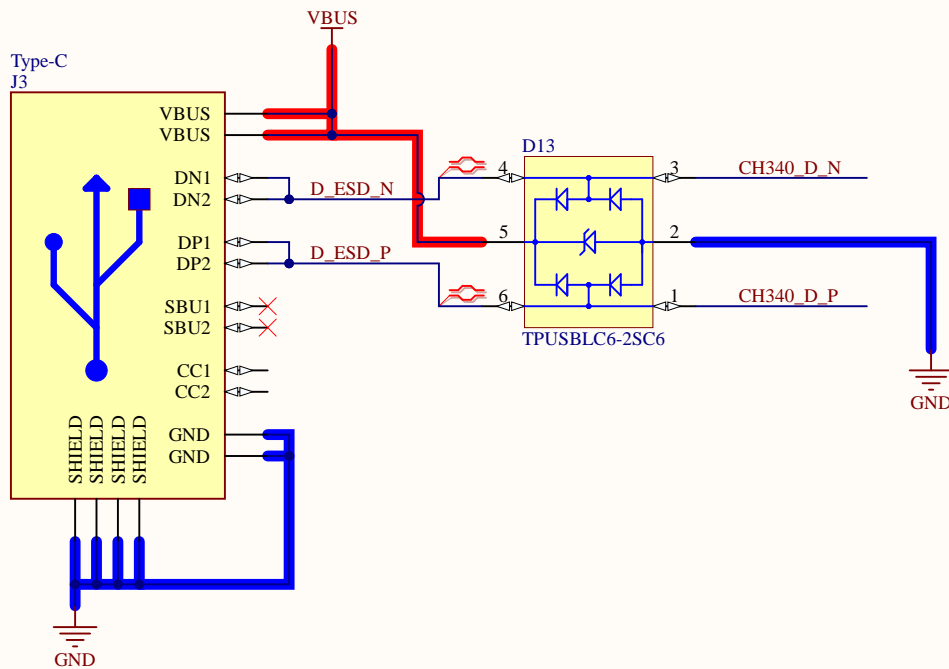
Project: Automated Component Testing PCB.PrjPcb		
Sheet Title: Power Supply Test.SchDoc		
Size A	Sheet Number: 14	Revision: A
Date: 12/22/2025	Sheet Total: 19	
Time: 9:29:00 PM	Author: Hany Hamza	



Project: Automated Component Testing PCB.PrjPcb		
Sheet Title: Parallel PCU Test.SchDoc		
Size A	Sheet Number: 15	Revision: A
Date: 12/22/2025	Sheet Total: 19	
Time: 9:29:00 PM	Author: Hany Hamza	



Project: Automated Component Testing PCB.PrjPcb		
Sheet Title: Temperature Sensors.SchDoc		
Size A	Sheet Number: 16	Revision: A
Date: 12/22/2025		Sheet Total: 19
Time: 9:29:00 PM		Author: Hany Hamza



Project: Automated Component Testing PCB.PrjPcb

Sheet Title: USB To UART Converter.SchDoc

Size A

Sheet Number: 17

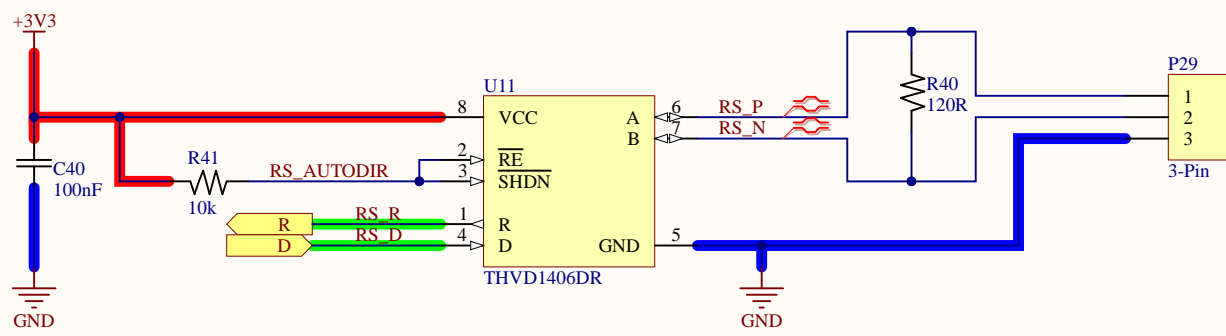
Revision: A


Date: 12/22/2025

Sheet Total:	19
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Time: 9:29:00 PM

Author:	Hany Hamza
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	Project: Automated Component Testing PCB.PrjPcb		
	Sheet Title: RS-485 Transceiver.SchDoc		
	Size A	Sheet Number: 18	Revision: A
	Date: 12/22/2025		Sheet Total: 19
	Time: 9:29:00 PM		Author: Hany Hamza

