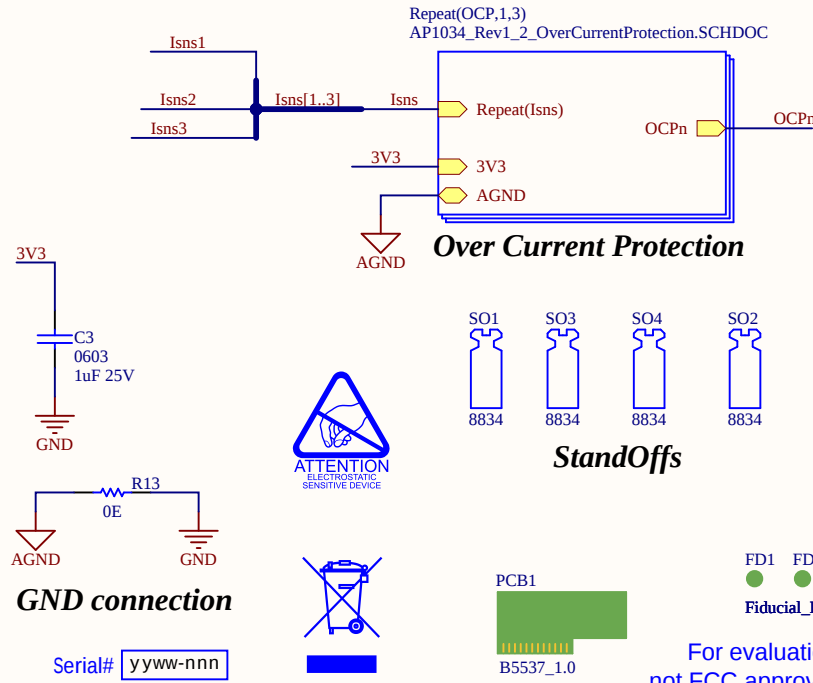
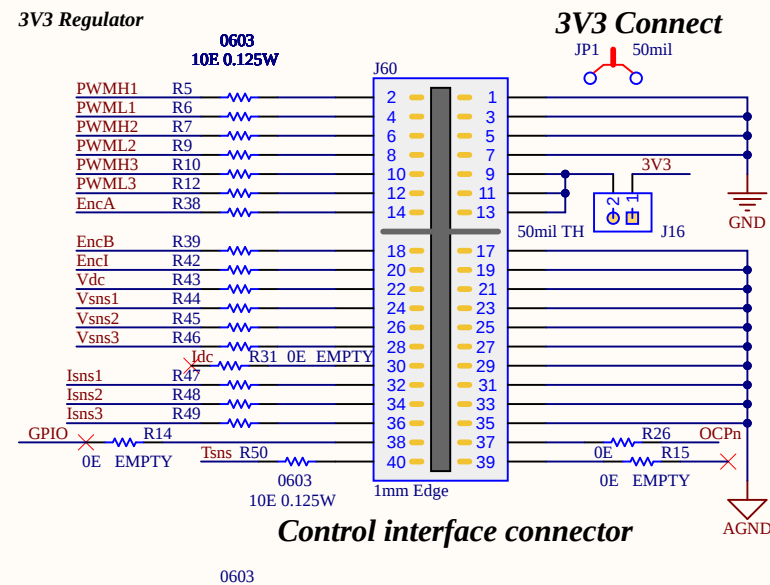
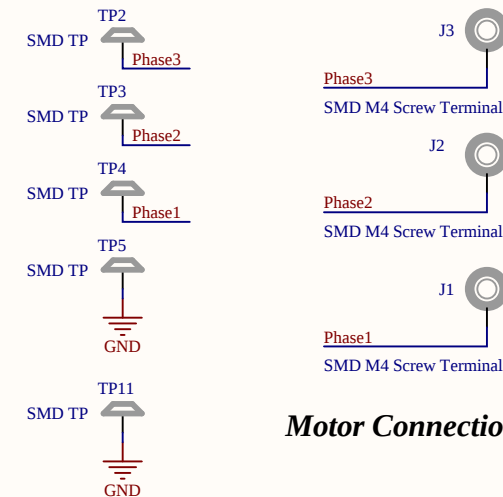
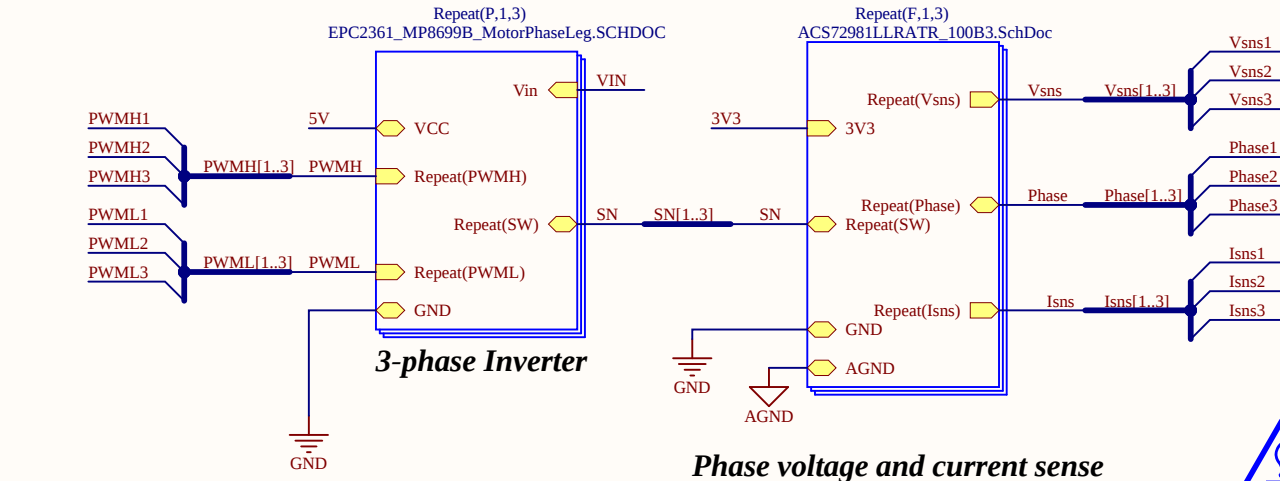
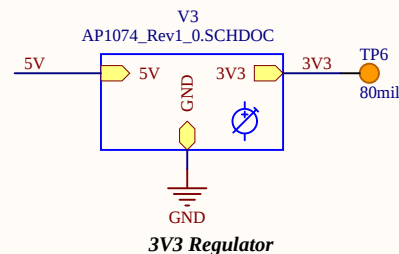
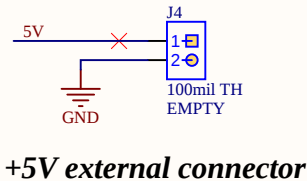
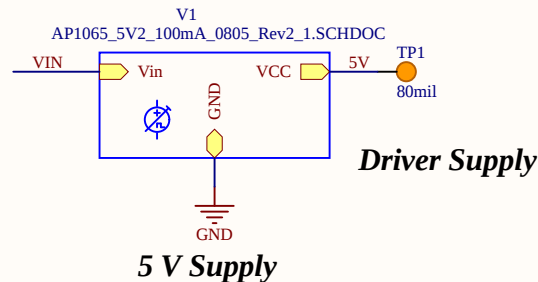
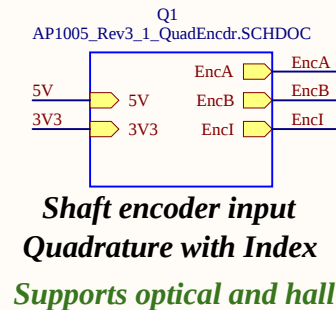
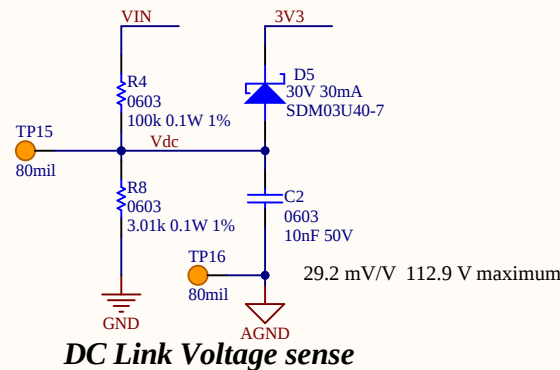
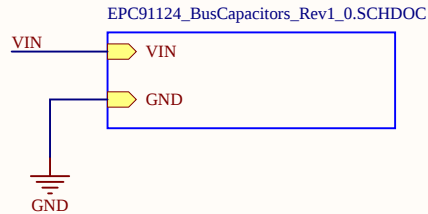
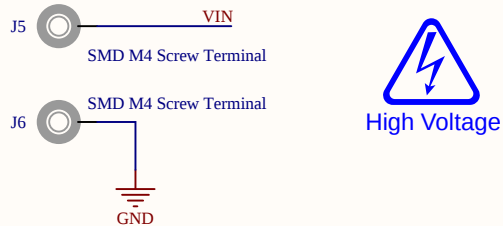
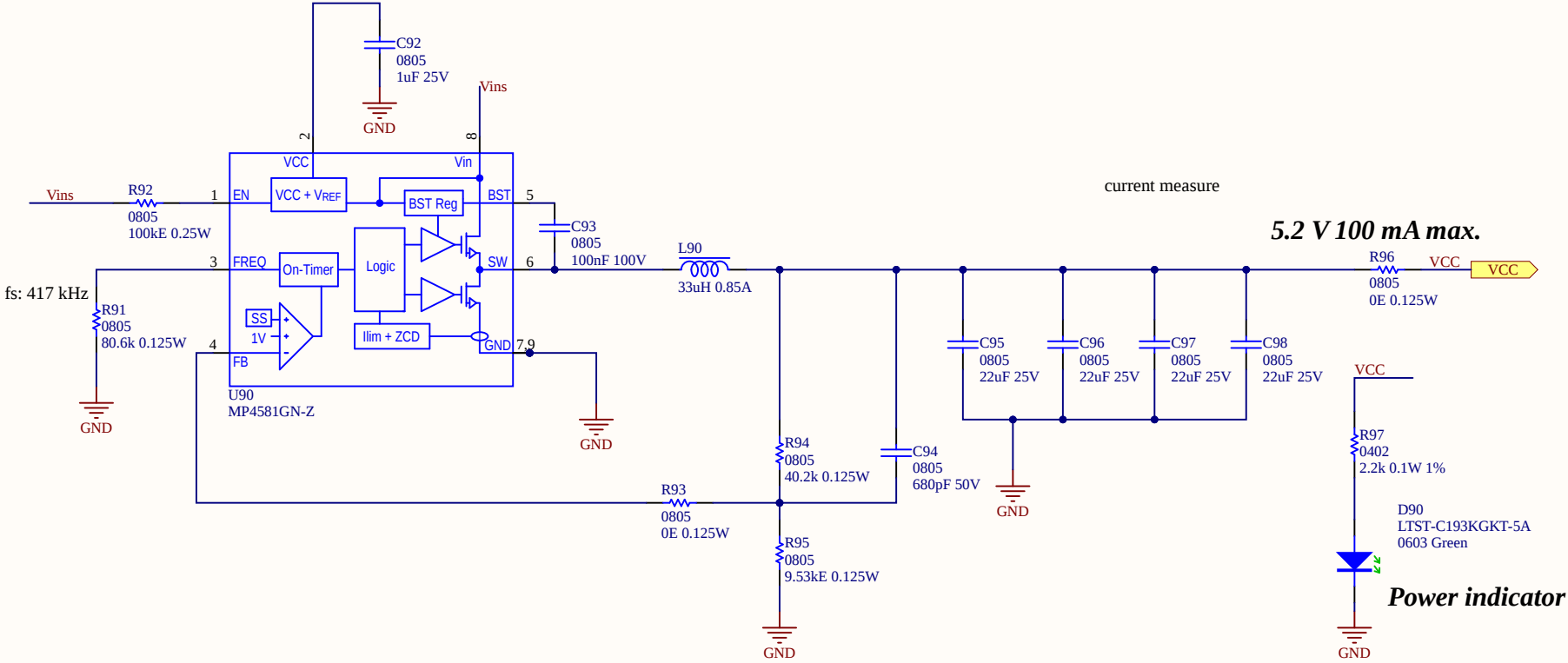
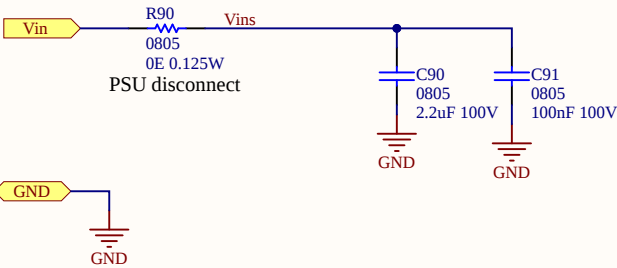
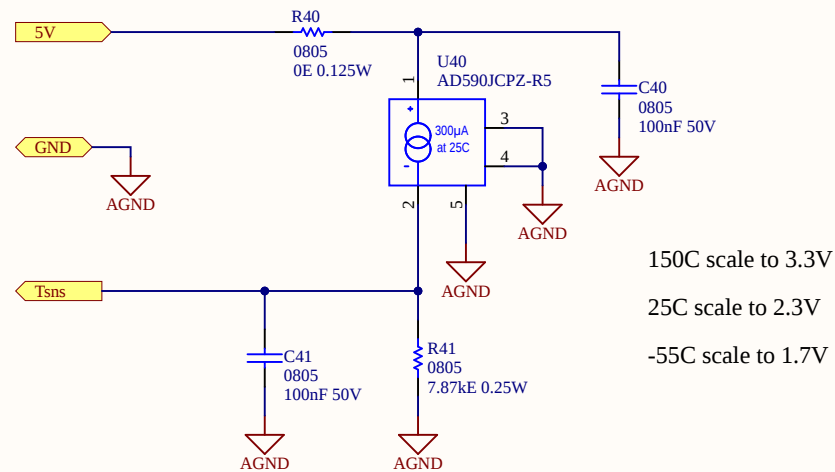


Title: EPC91124 - three phase motor drive with EPC2361			© EPC 2025
Design #: EPC91124	PCB #: B5537	Efficient Power Conversion	
Revision 1.0	Revision: 1.0	909 Pacific Coast Hwy. Ste 230	
Date: 13/11/2025	Sheet 1 of 10	El Segundo, CA 90245	
File: EPC91124_B5537_Rev1_0_Main.SCHDOC		U.S.A.	
		www.epc-co.com	



10 Vmin. to 100 Vmax.





Title: Temperature sense using AD590 - 0805 components

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Design #: AP1009_0805_2p3V

Revision 3.1

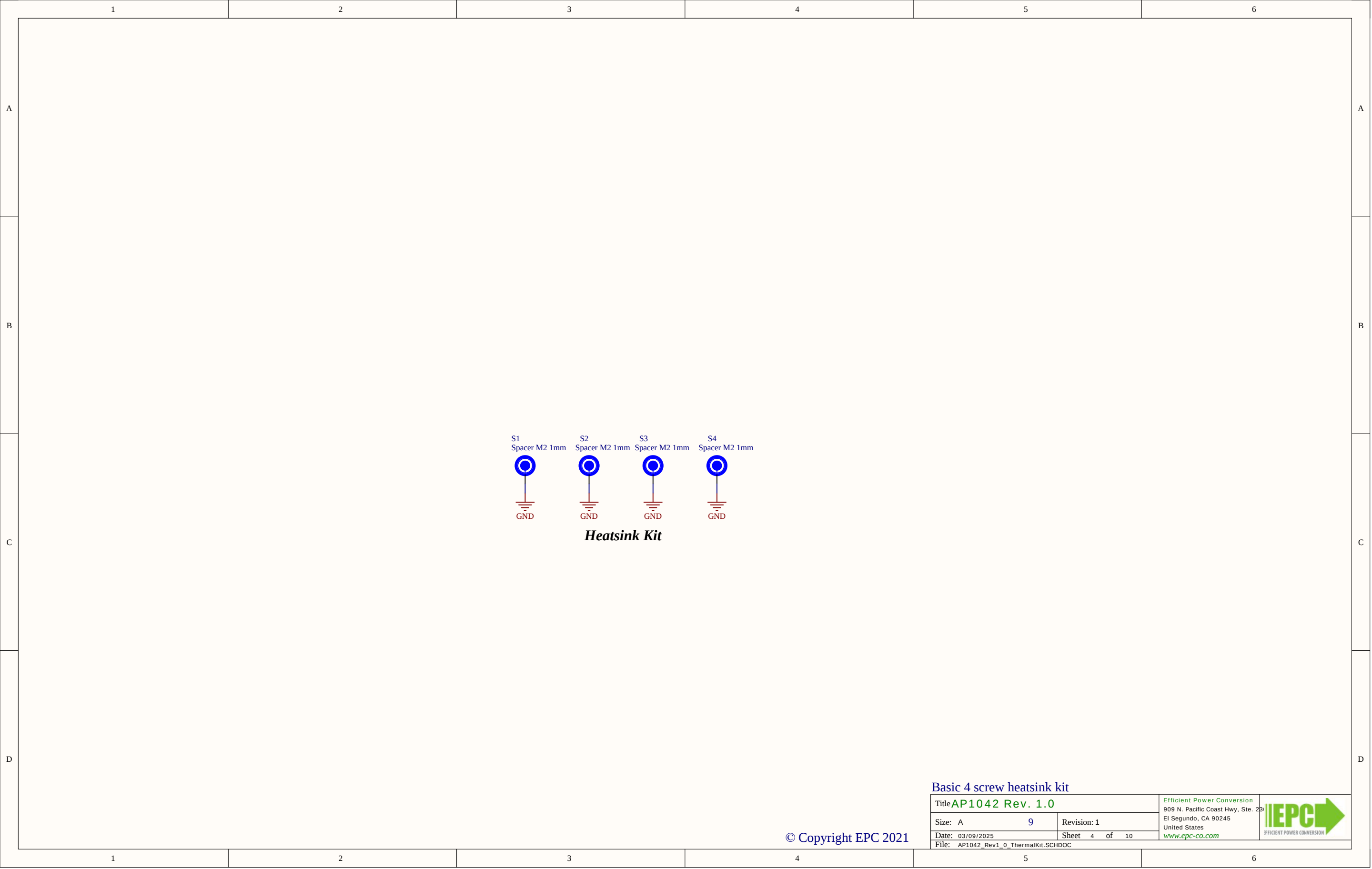
Date: 03/09/2025

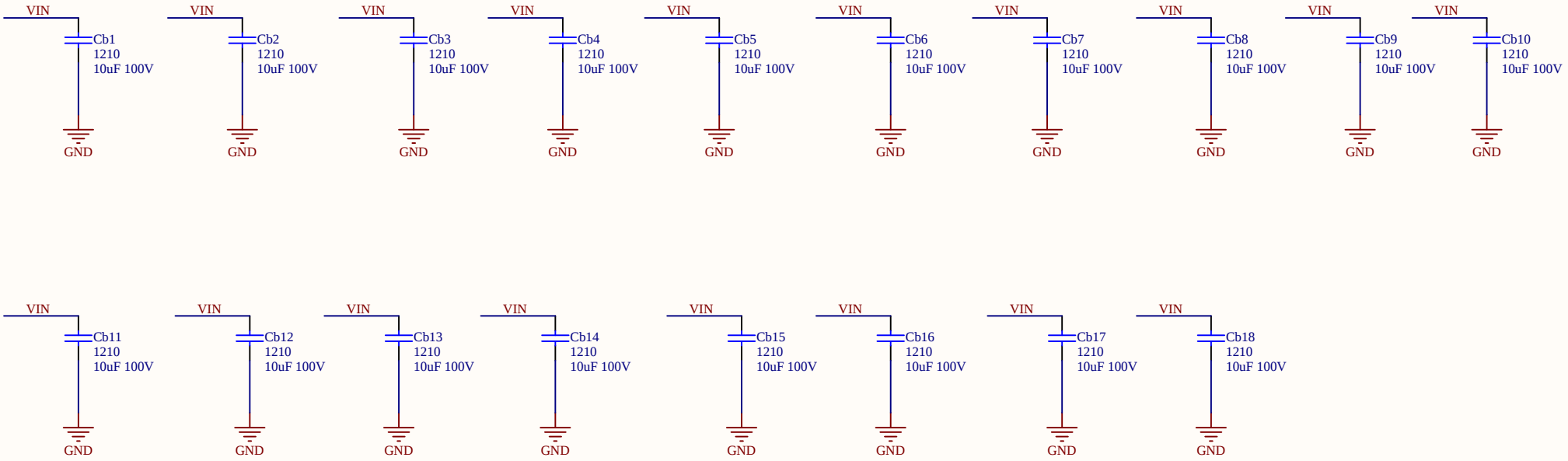
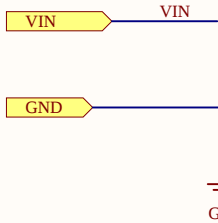
Sheet 3 of 10

File: AP1009_0805_2p3V_Rev3_1.SCHDOC

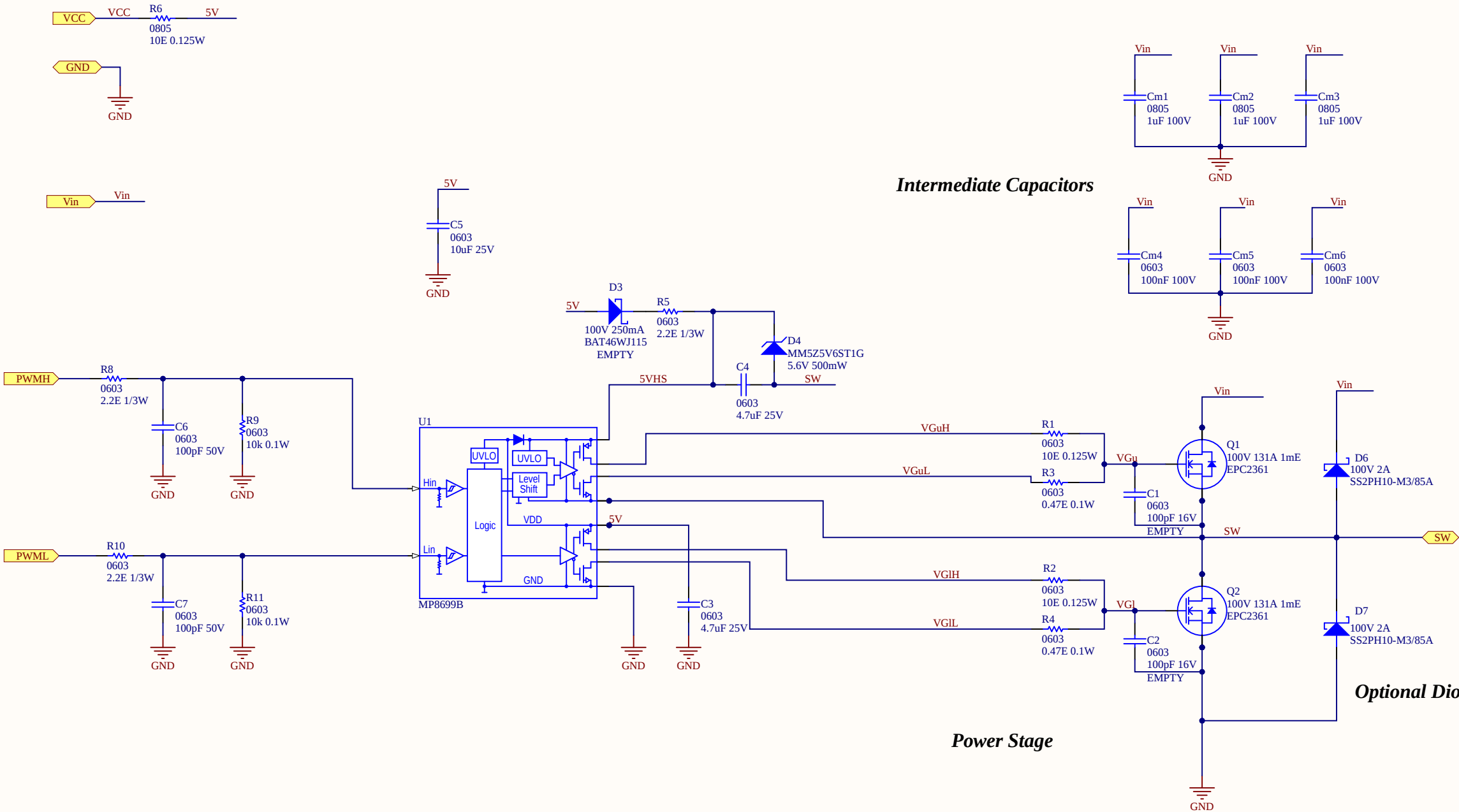
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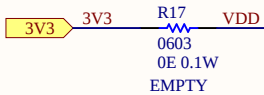
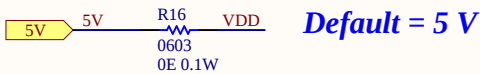




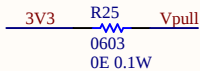
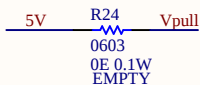


DC Bus Capacitors

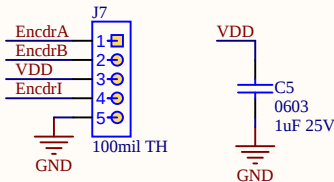




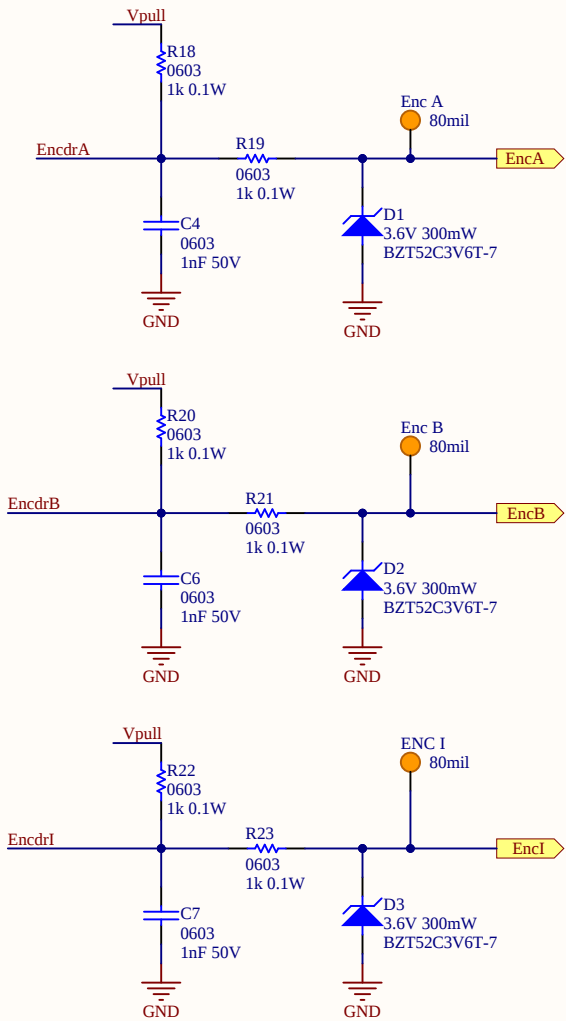
Sensors supply Voltage selection

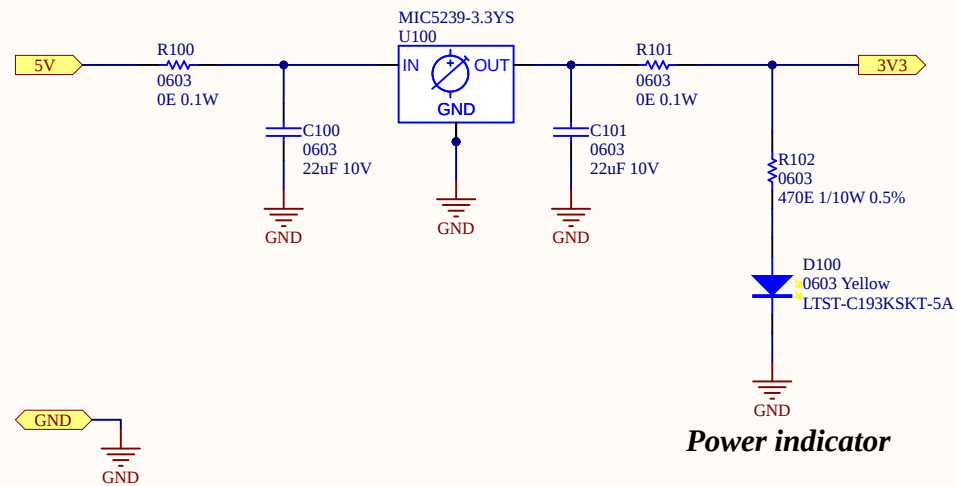


Pull Up Voltage for microcontroller input signals



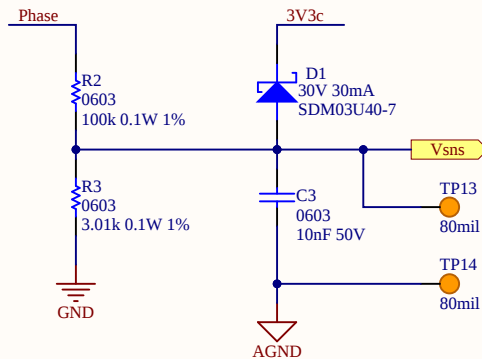
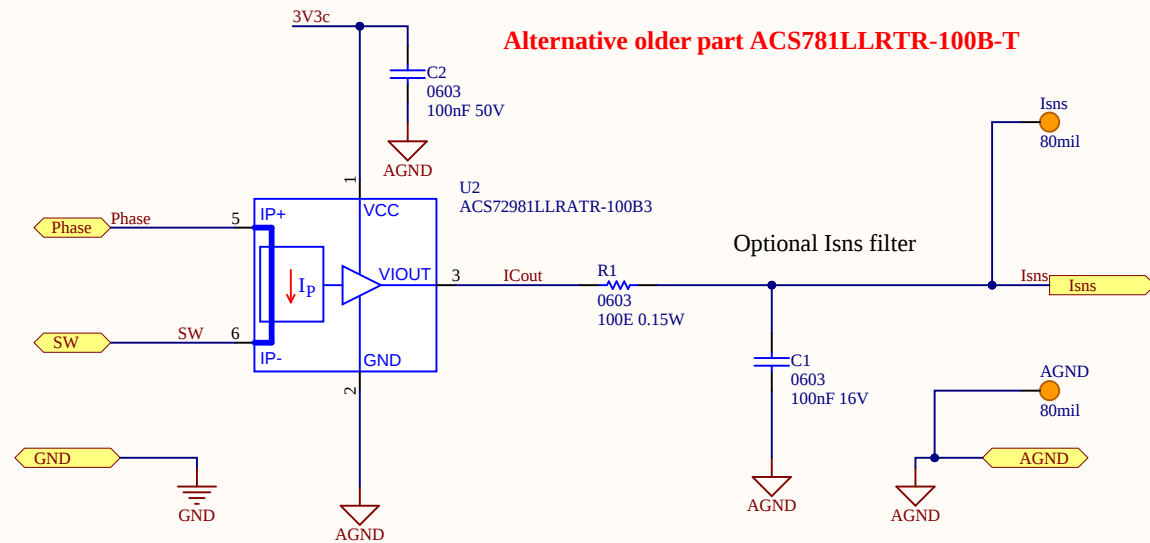
Shaft encoder connection
Quadrature with Index
Supports optical and hall





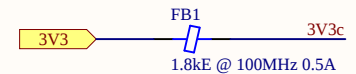
Power indicator

Title: 5V to 3V3 500mA LDO using MIC5239-3.3YS			© EPC 2023		
Design #: AP1074			Efficient Power Conversion 909 Pacific Coast Hwy. Ste 230 El Segundo, CA 90245 U.S.A. www.epc-co.com 		
Revision 1.0					
Date: 03/09/2025	Sheet	8 of 10			
File: AP1074_Rev1_0.SCHDOC					



Phase Voltage sense

112.9 V scale to 3.3V



Title: Bidirectional current sense using Hall effect sensor ACS72981

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Design #: AP1075

Revision 1.0

Date: 04/09/2025

Sheet 9 of 10

File: ACS72981LLRATR_100B3.SchDoc

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A

B

C

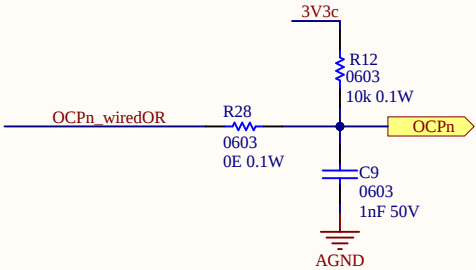
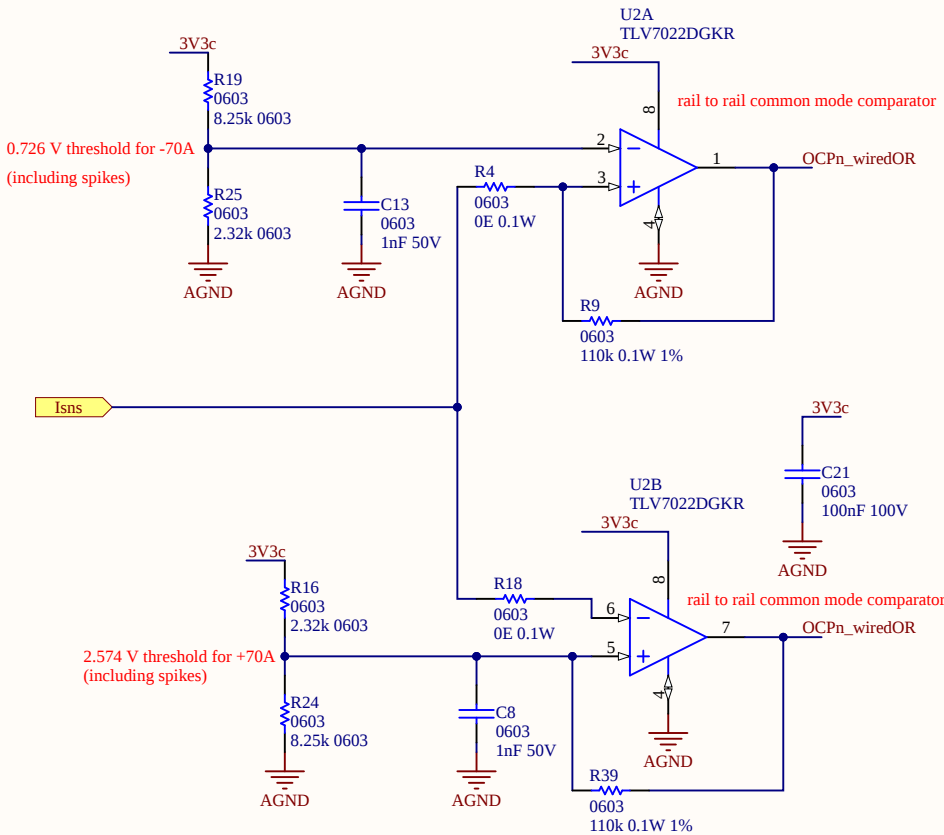
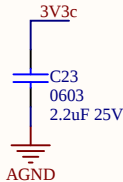
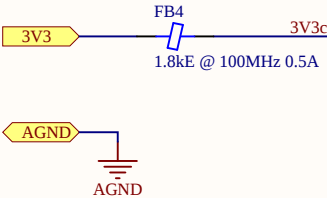
D

A

B

C

D



R12 and C9 are not mounted because they are mounted in front of the gate driver.

Bi-Directional Over Current Detection

TitleAP1034 Rev. 1.1		Efficient Power Conversion 909 N. Pacific Coast Hwy, Ste. 231 El Segundo, CA 90245 United States www.epc-co.com	
Size: A	*	Revision: 1	
Date: 13/11/2025	Sheet 10 of 10		
File: AP1034_Rev1_2_OverCurrentProtection.SCHDOC			

