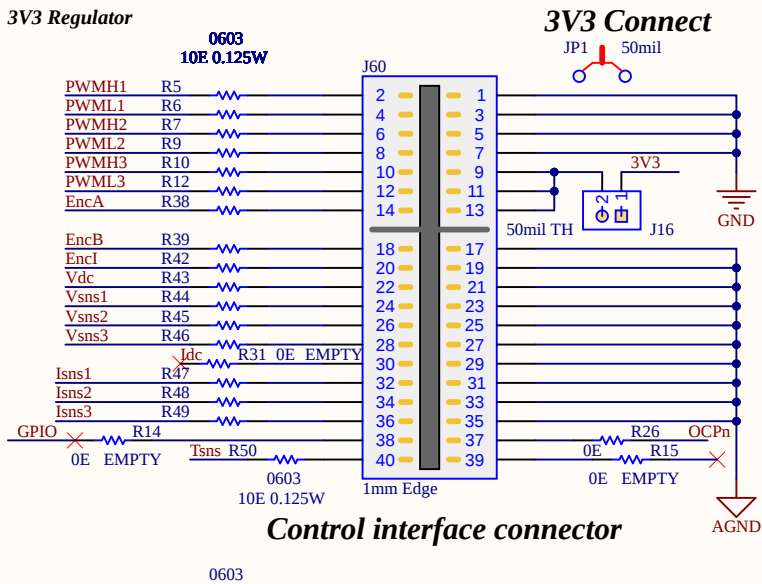
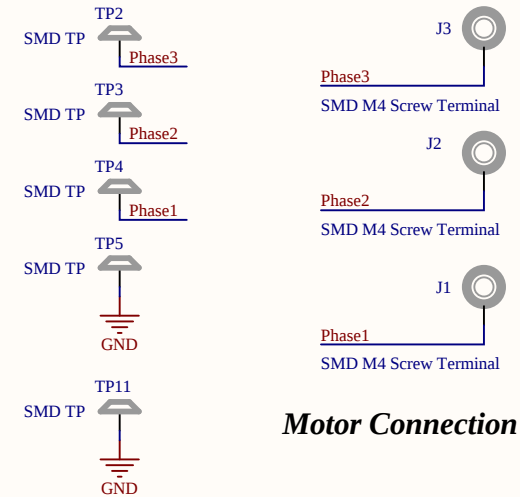
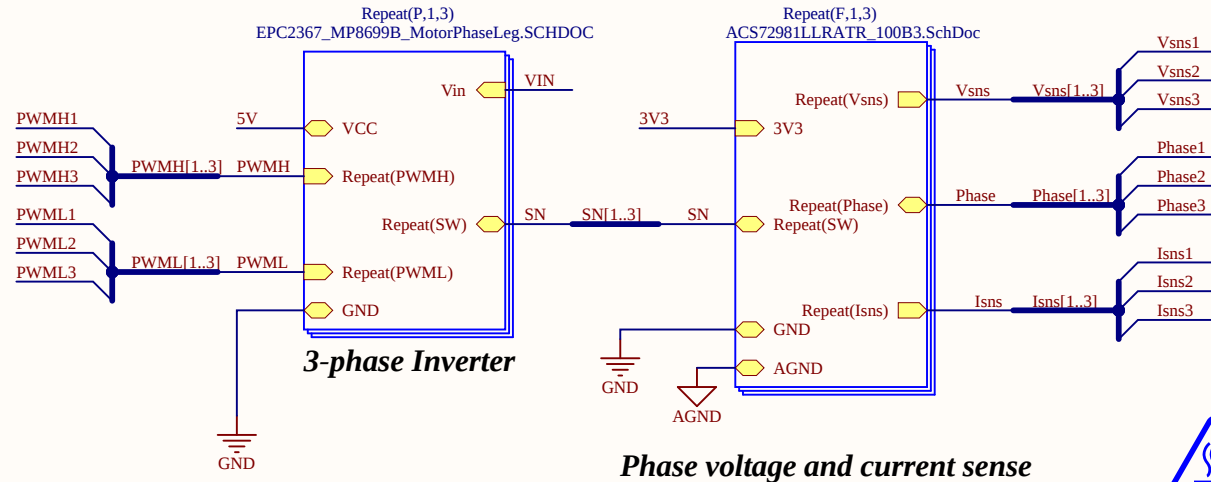
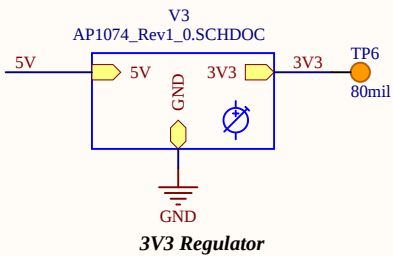
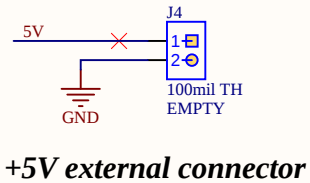
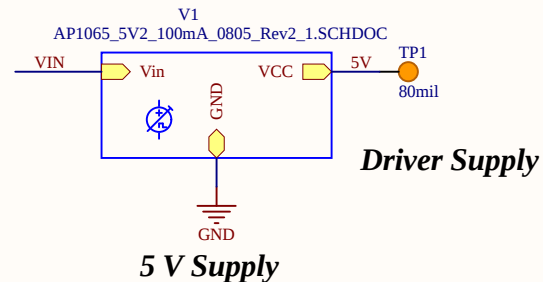
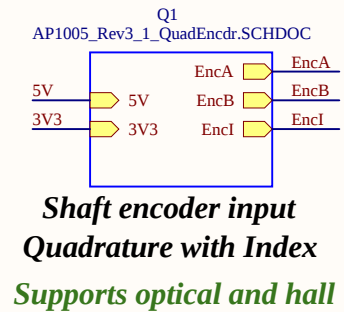
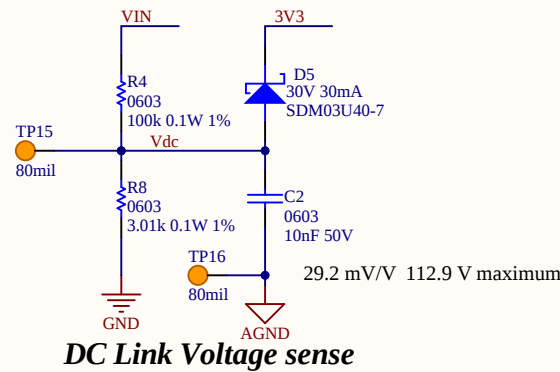
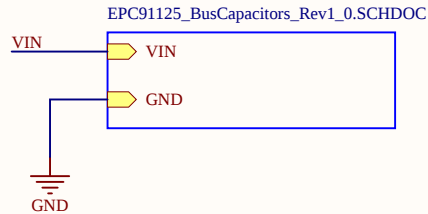
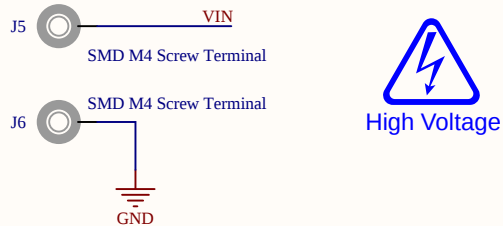
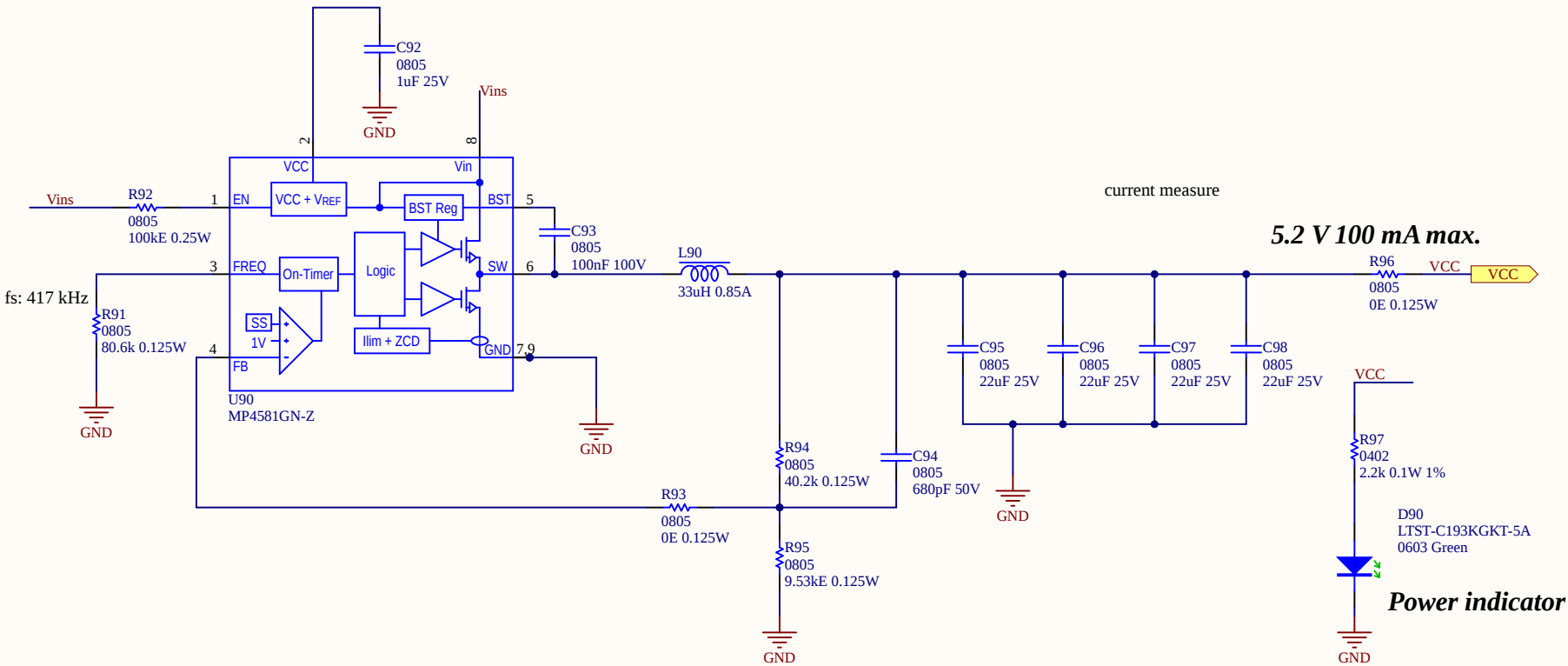
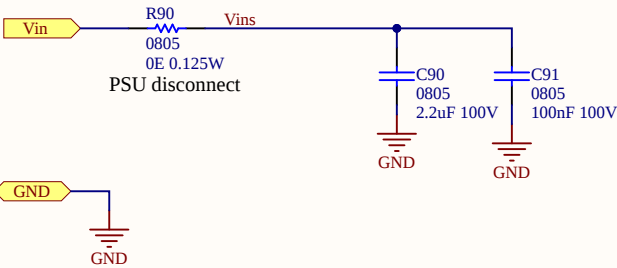
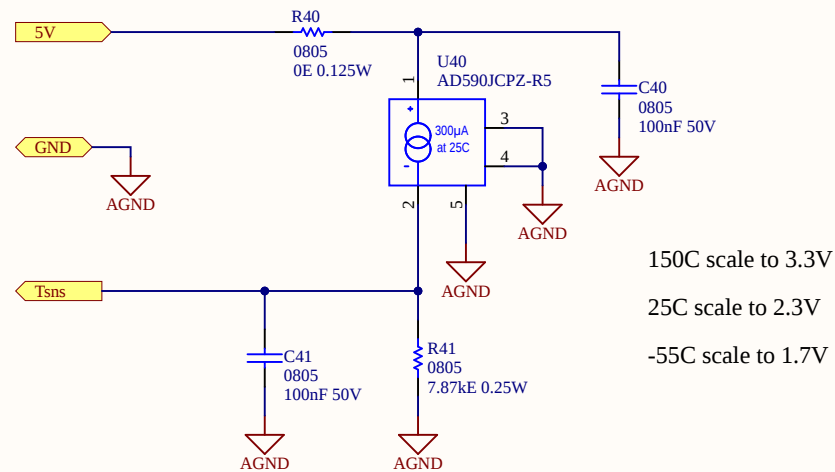


For evaluation only;
not FCC approved for resale

Title: EPC91125 - three phase motor drive with EPC2367			© EPC 2025
Design #: EPC91125	PCB #: B5538	Efficient Power Conversion 909 Pacific Coast Hwy. Ste 230 El Segundo, CA 90245 U.S.A. www.epc-co.com	 EFFICIENTPOWERCONVERSION
Revision 1.0	Revision: 1.0		
Date: 19/11/2025	Sheet 1 of 10		
File: EPC91125_B5538_Rev1_0_Main.SCHDOC			

10 Vmin. to 100 Vmax.





Title: Temperature sense using AD590 - 0805 components

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Design #: AP1009_0805_2p3V

Revision 3.1

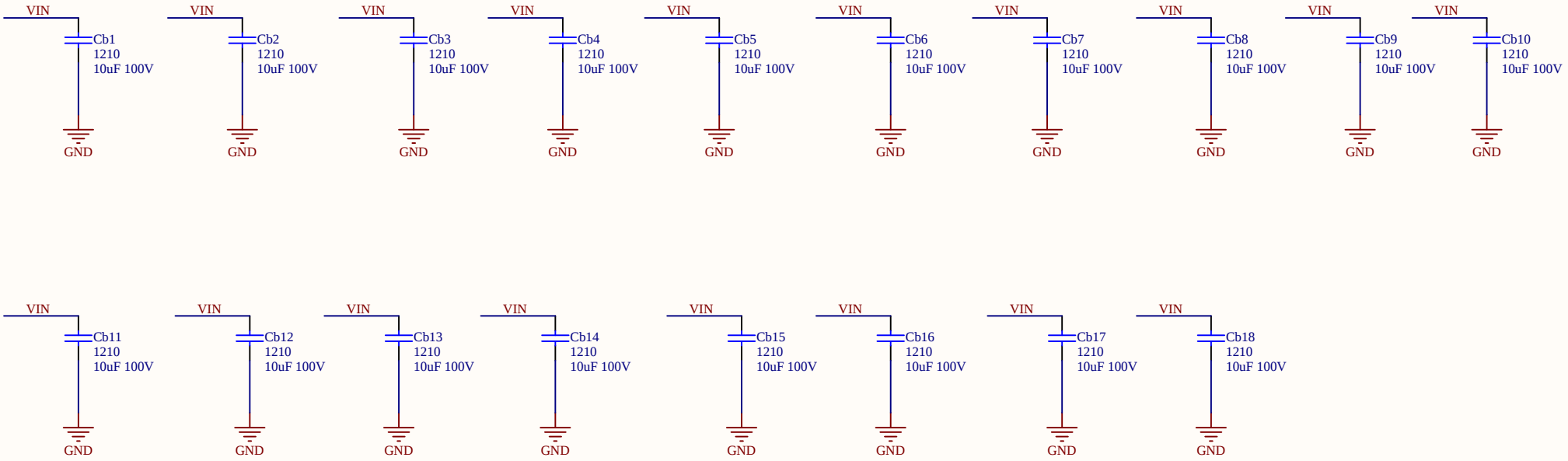
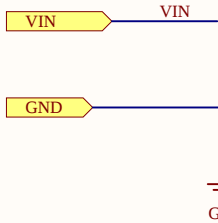
Date: 03/09/2025

Sheet 3 of 10

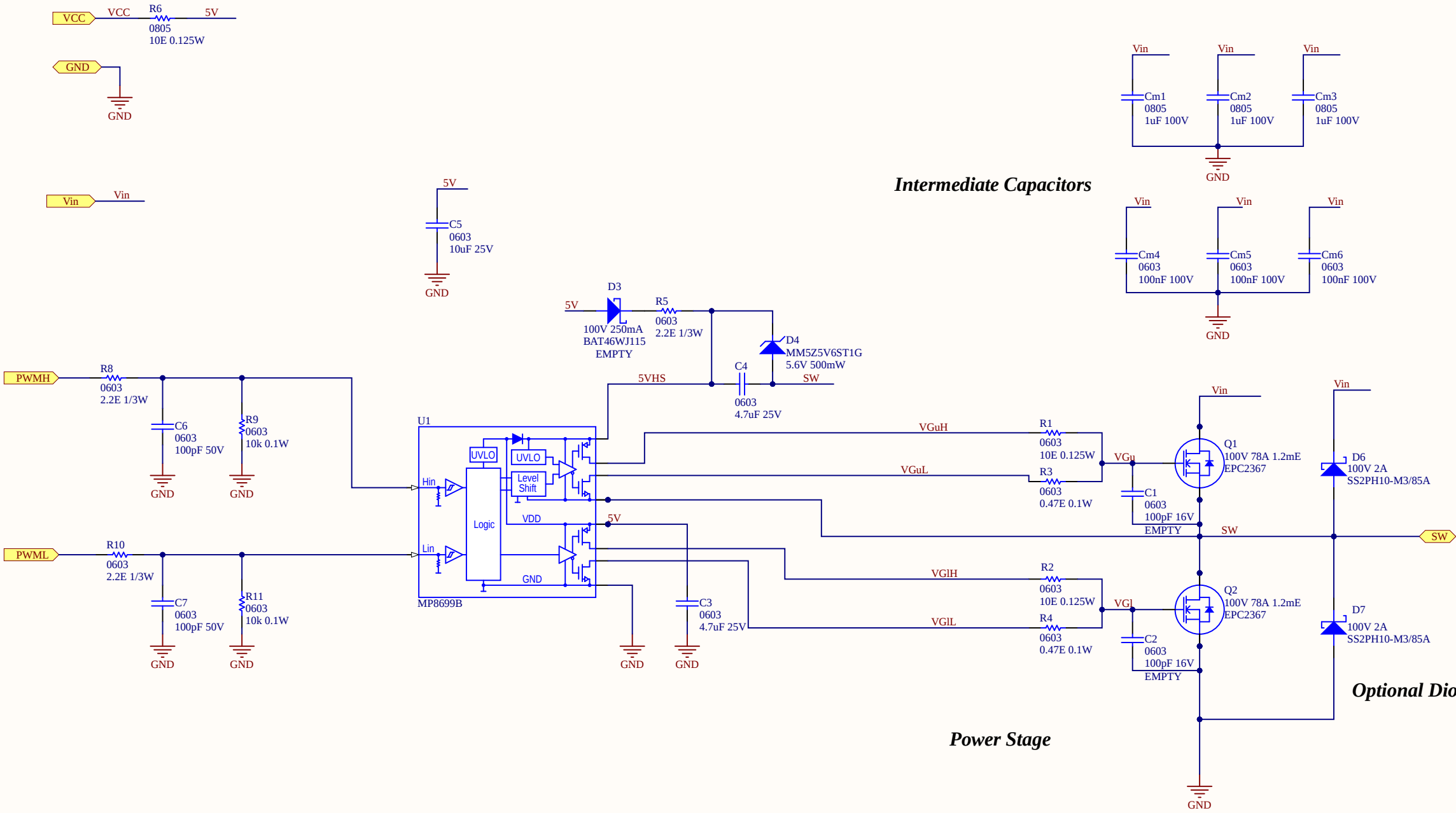
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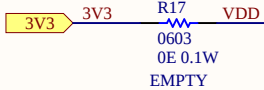
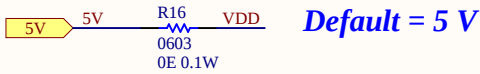
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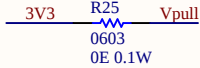
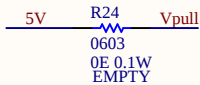


DC Bus Capacitors

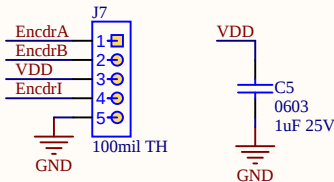




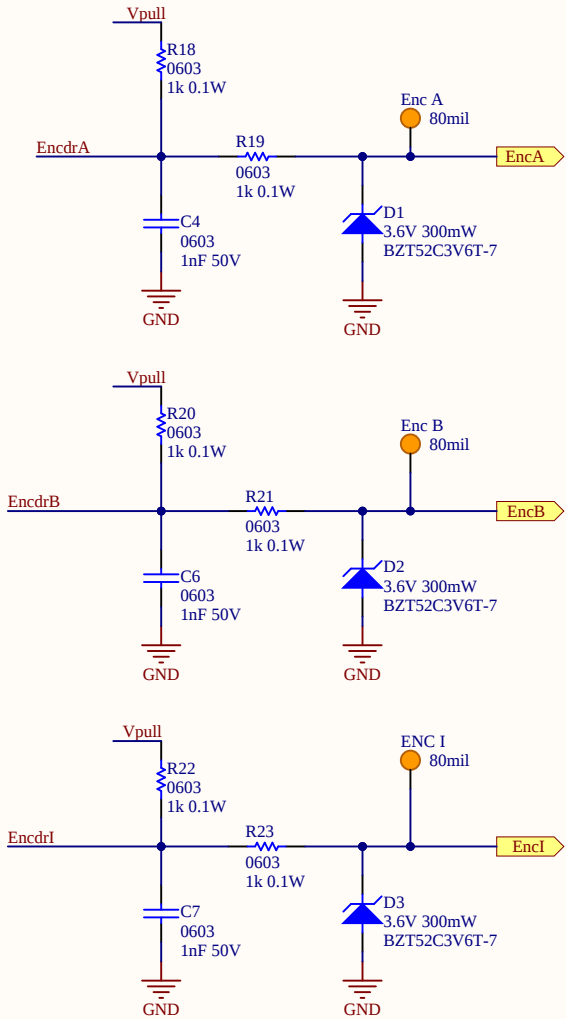
Sensors supply Voltage selection

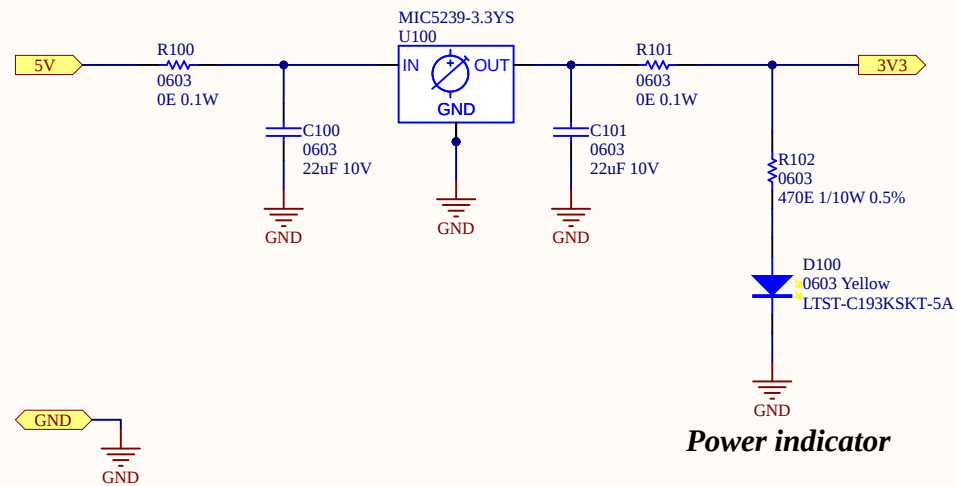


Pull Up Voltage for microcontroller input signals



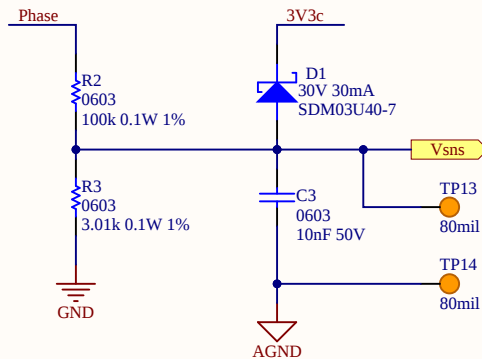
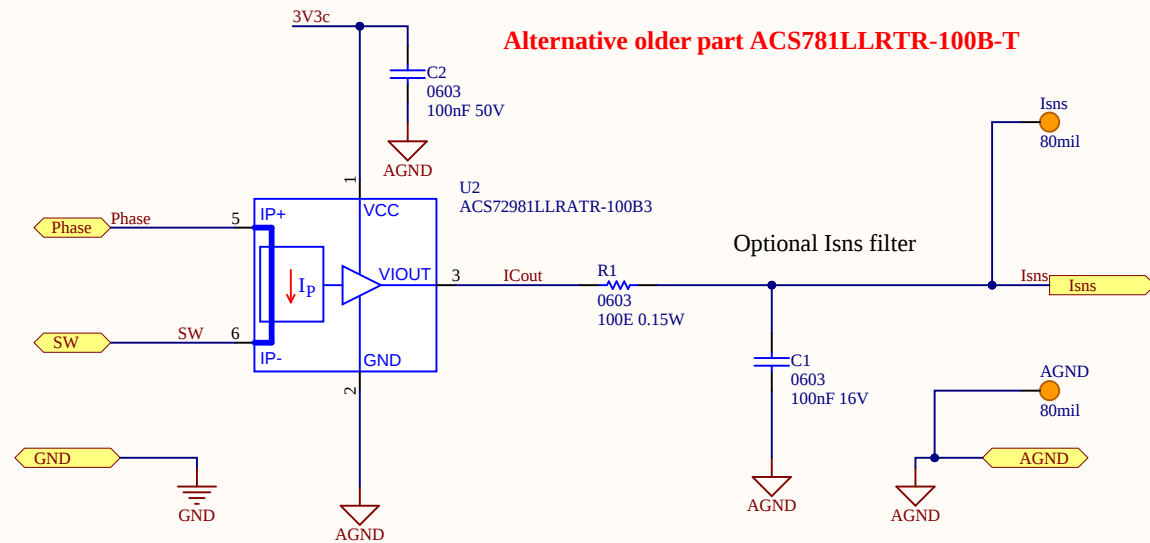
Shaft encoder connection
Quadrature with Index
Supports optical and hall





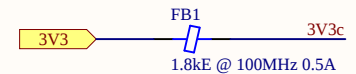
Power indicator

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

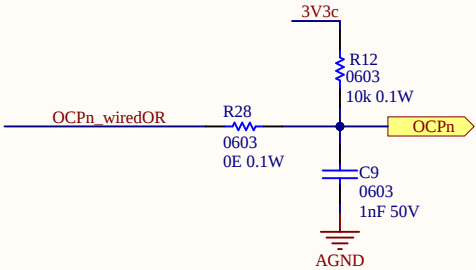
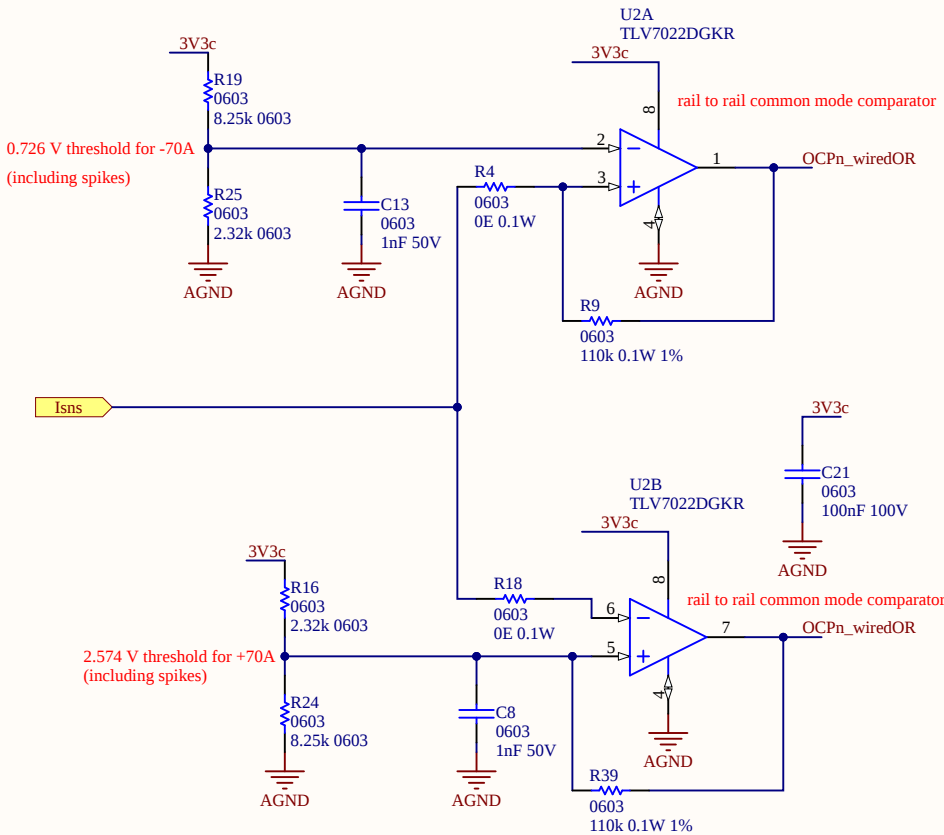
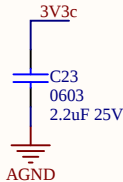
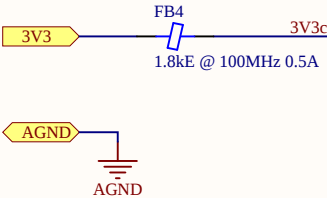
D

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			

