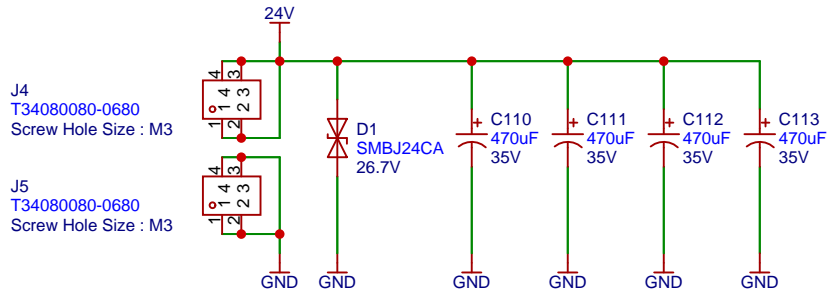


Errata:
 10MOhm (R83) must be 100kOhm
 100kOhm on negative side (R44) must be 47kOhm
 => this lets measure negative freewheeling currents
 when ARR=0 (timer update, all 3 low side FET ON) take
 ADC measurement and get full 3 phase current data in one
 shot.

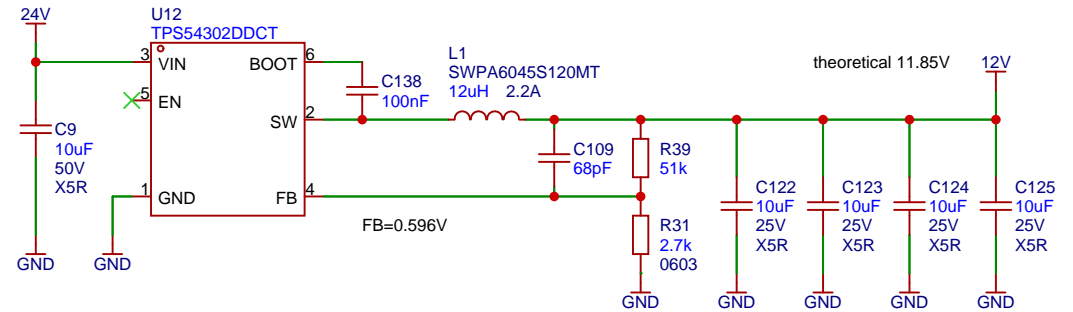
V1 V2 V3
 Fiducial

Schematic	Schematic1			Create at	2025-10-15
Board	Board1			Update at	2025-10-24
Drawn	bldc-high-current-2-easyeda			Page	power stage
Reviewed					
		Version	Size	Page 1 Total 3	
EasyEDA		V1.0	A4	EasyEDA.com	

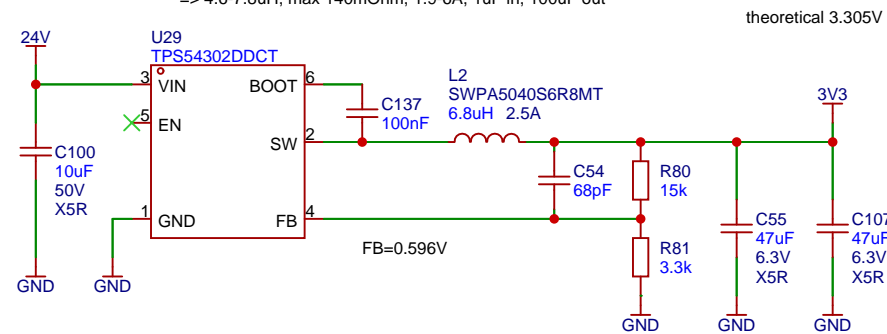
24V
26V max
D1 breaks down at 26.7V DC-DC max out at 28V



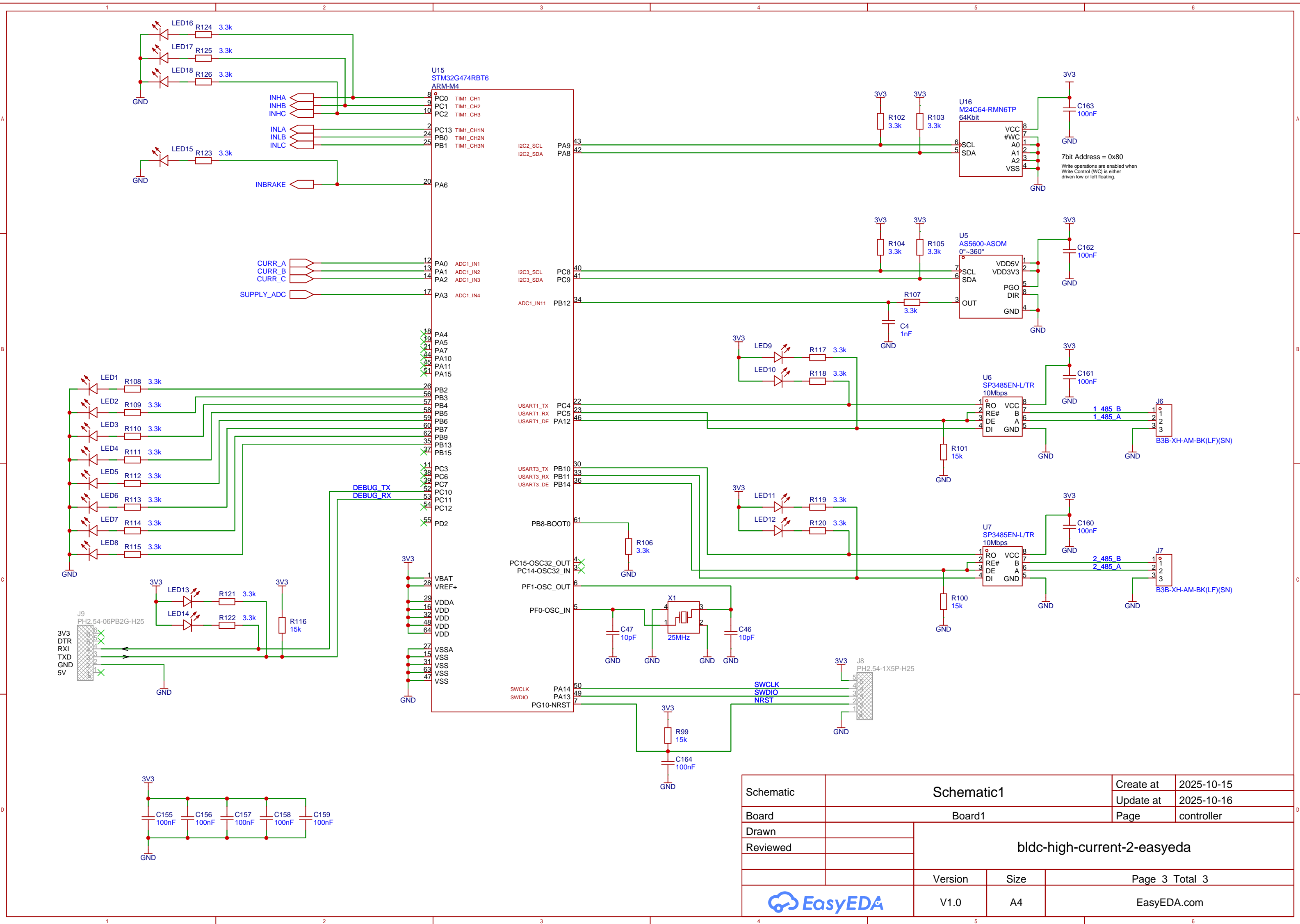
Parameters:
vin = 16 - 28V
iout = 0.35A
uout = 12V
=> 10.8-18.5uH max 500mOhm, 1.9-6A, 680nF in, 45uF out



Parameters:
vin = 16 - 28V
iout = 0.15A
uout = 3.3V
=> 4.6-7.8uH, max 140mOhm, 1.9-6A, 1uF in, 100uF out



Schematic	Schematic1			Create at	2025-10-15
Board	Board1			Update at	2025-10-16
Drawn		bldc-high-current-2-easyeda			
Reviewed					
		Version	Size	Page 2 Total 3	
EasyEDA		V1.0	A4	EasyEDA.com	



Schematic	Schematic1		Create at	2025-10-15
			Update at	2025-10-16
Board	Board1		Page	controller
Drawn	bldc-high-current-2-easyeda			
Reviewed				
		Version	Size	Page 3 Total 3
EasyEDA		V1.0	A4	EasyEDA.com