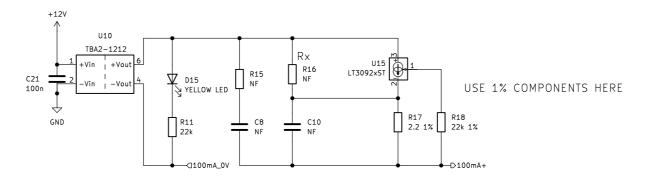


Supply 12V TBA used as can supply 165mA and 5.6V required.

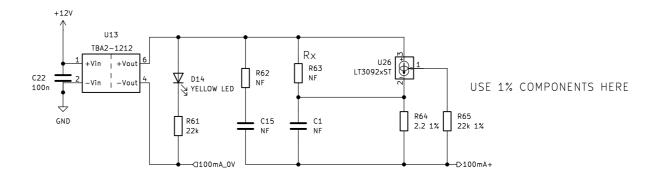
LED: |f = 12/1k = 12mA



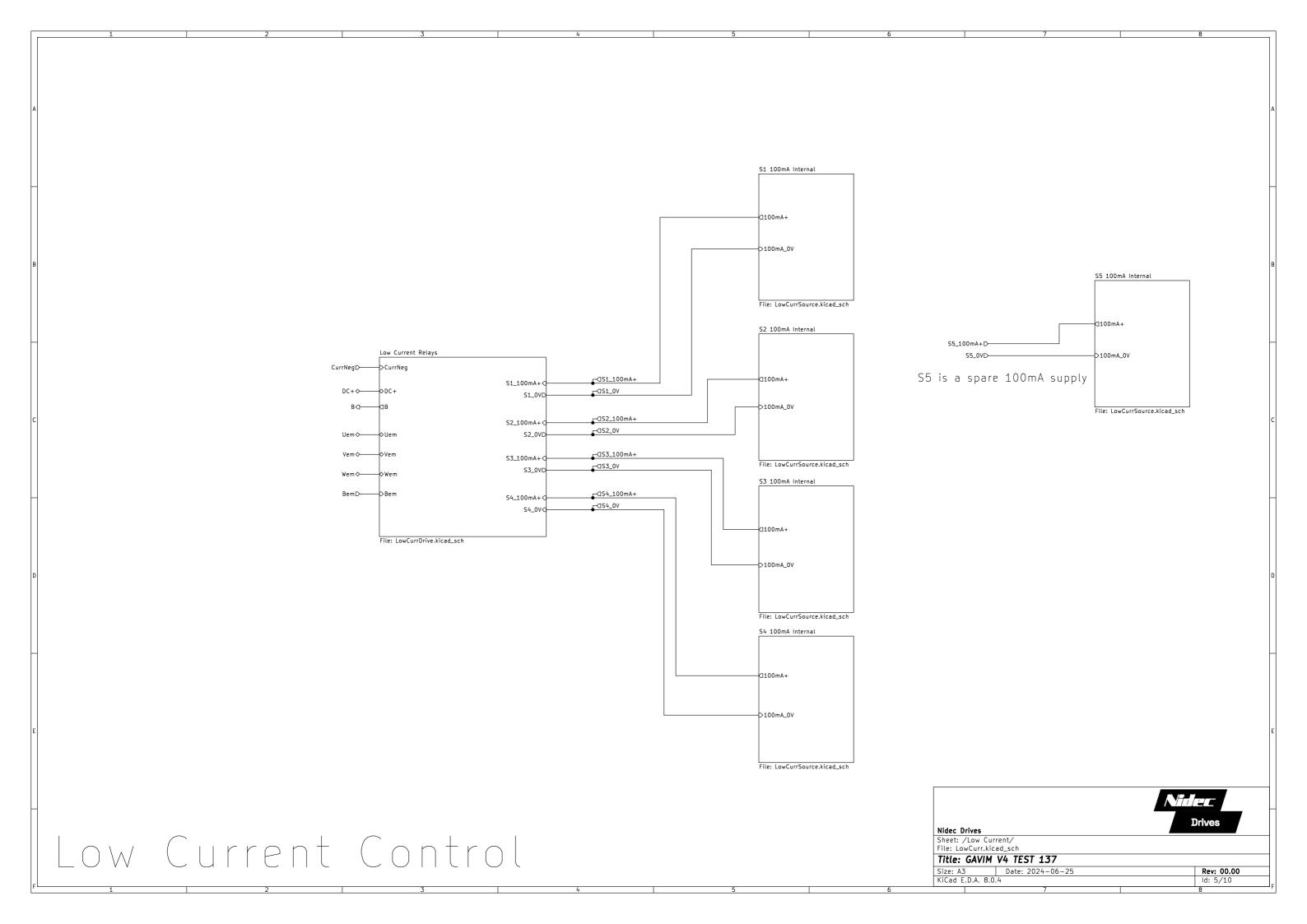
	Nidec	
Nidec Drives	Drives	
Sheet: /Low Current/S5 100mA Internal/ File: LowCurrSource.kicad_sch		
Title: GAVIM V4 TEST 137		
Size: A3 Date: 2024-06-25	Rev: 00.00	
KiCad E.D.A. 8.0.4	ld: 2/10	

Supply 12V TBA used as can supply 165mA and 5.6V required.

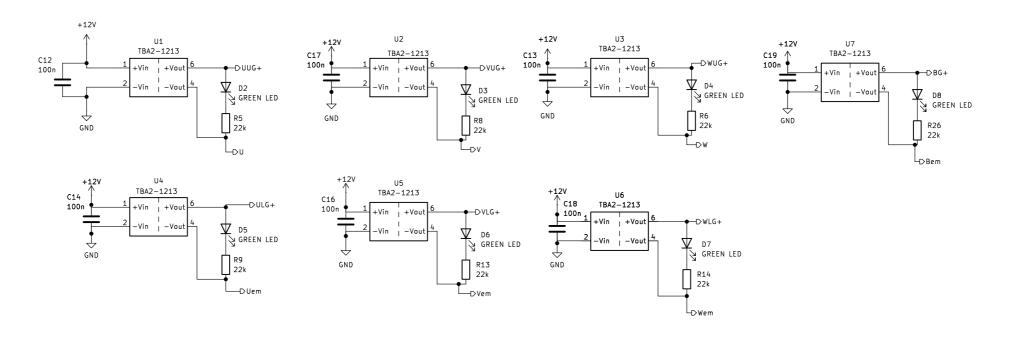
LED: |f = 12/1k = 12mA



	Nidec	
Nidec Drives	Drives	
Sheet: /Low Current/S4 100mA Internal/ File: LowCurrSource.kicad_sch		
Title: GAVIM V4 TEST 137		
Size: A3 Date: 2024-06-25	Rev: 00.00	
KiCad E.D.A. 8.0.4	ld: 4/10	



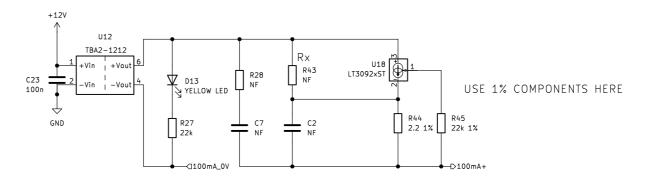




DC Supplies

Supply 12V TBA used as can supply 165mA and 5.6V required.

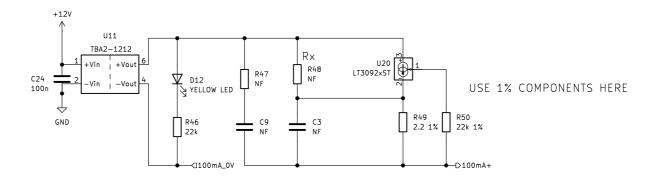
LED: |f = 12/1k = 12mA



Nidec Drives	Drives
Sheet: /Low Current/S3 100mA Internal/ File: LowCurrSource.kicad_sch	
Title: GAVIM V4 TEST 137	
Size: A3 Date: 2024-06-25	Rev: 00.00
KiCad E.D.A. 8.0.4	ld: 7/10

Supply 12V TBA used as can supply 165mA and 5.6V required.

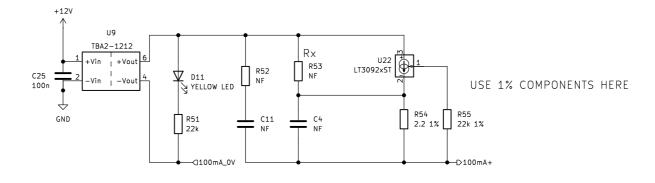
LED: |f = 12/1k = 12mA



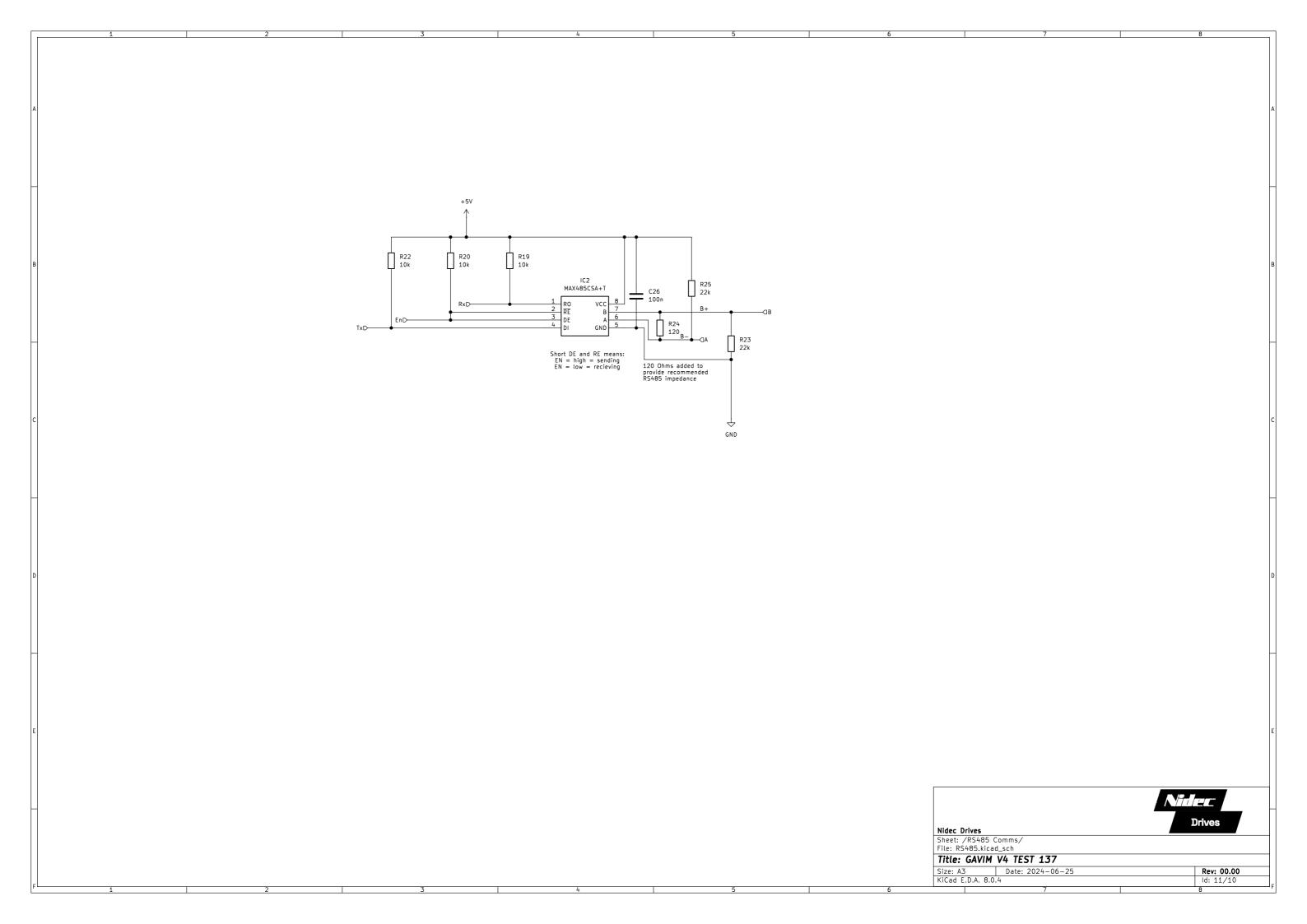
	Drives	
Nidec Drives		
Sheet: /Low Current/S2 100mA Internal/		
File: LowCurrSource.kicad_sch		
Title: GAVIM V4 TEST 137		
Size: A3 Date: 2024-06-25	Rev: 00.00	
KiCad E.D.A. 8.0.4	ld: 8/10	

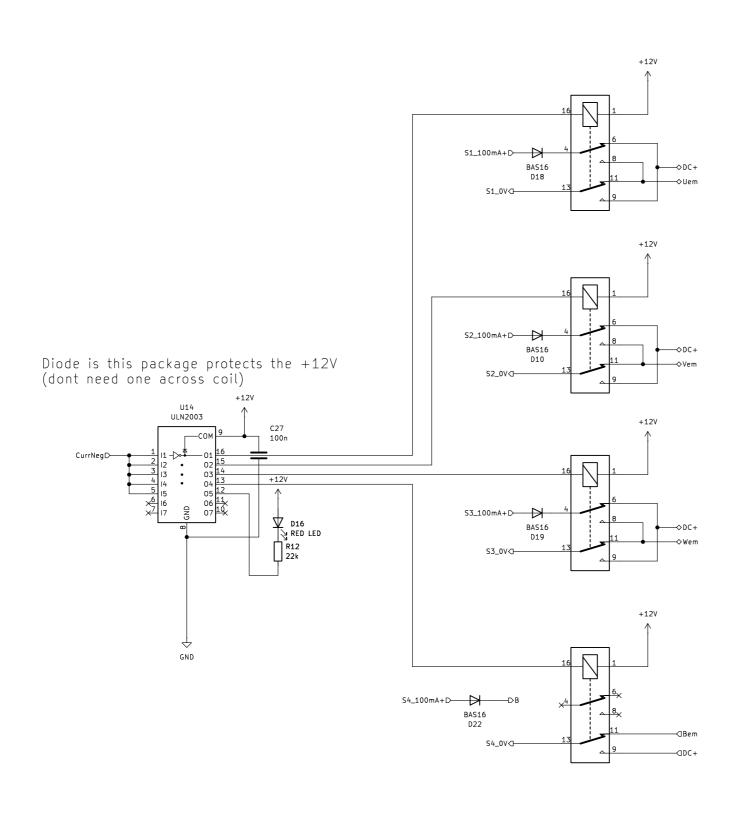
Supply 12V TBA used as can supply 165mA and 5.6V required.

LED: |f = 12/1k = 12mA



Nidec Drives	Drives
Sheet: /Low Current/S1 100mA Internal/ File: LowCurrSource.kicad sch	
Title: GAVIM V4 TEST 137	
Size: A3 Date: 2024-06-25	Rev: 00.00
KiCad E.D.A. 8.0.4	ld: 9/10





SSR and RLY indicator If = 12/1k = 12mA

Coil current is 100mA ULN2002 is 500mA per driver

Arduino pin is 20mA 2.7k is base resistor (from datasheet): 5V/2.7k * 4 (for all drivers) = 7.4mA

Low Current Relay Driver

Nidec Drives	PEC Orives
Sheet: /Low Current/Low Current Relays/ File: LowCurrDrive.kicad_sch	
Title: GAVIM V4 TEST 137	
Size: A3 Date: 2024-06-25	Rev: 00.00
KiCad E.D.A. 8.0.4	ld: 14/10