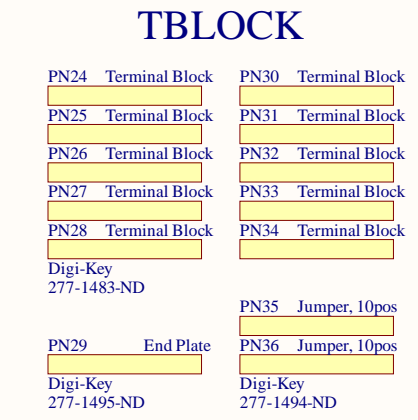
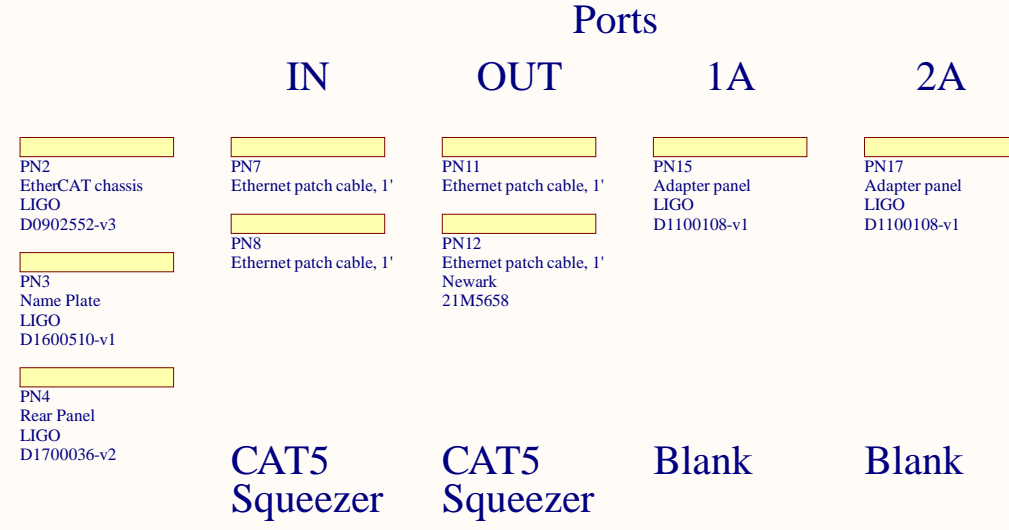


Mount the terminal block on spare DIN rail space.
Use the terminal block to distribute the 24V supply.

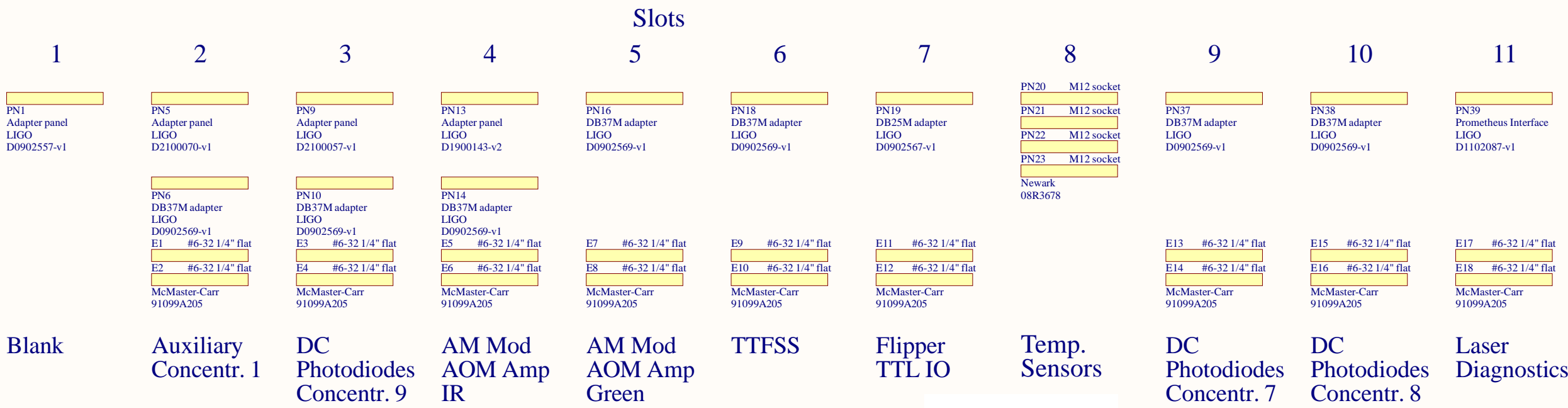
This EtherCAT chassis uses copper only.
Mount the modular adapters to the front panel.
Using CAT5 patch cables:

- Connect the front panel input to the first coupler (left rail).
- Connect the output of the first coupler to the input of the second one.
- Connect the output of the second coupler to the input of the third one.
- Connect the front panel output to the output of the last coupler (right rail).



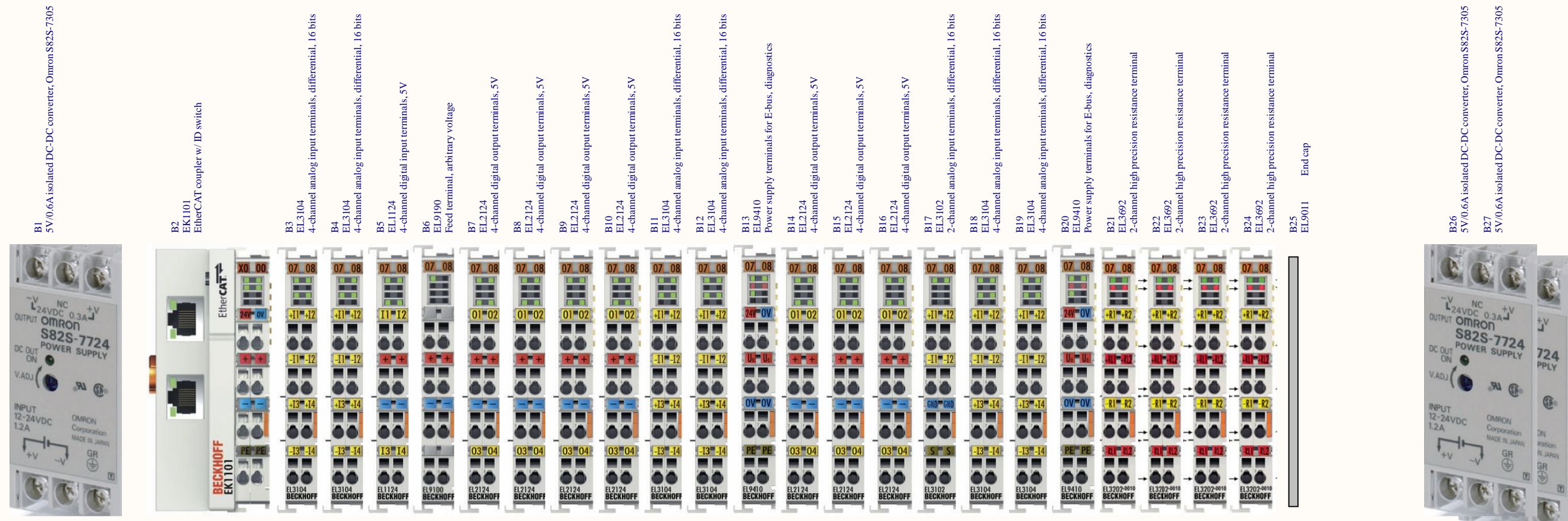
Alternative terminal block:
- Phoenix 2315272
- Phoenix 2315269

Alternative DC-DC supply:
- Mean Well DDR-15G-5



M12	Color	PT100
1	brown	RL+
2	white	R+
3	blue	RL-
4	black	R-

Title EtherCAT Squeezer 3		
Size B	Number D1600509	Revision 5
Date:	11/15/2023	Sheet 1 of 4
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0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Ebus 24V — 24V 24V
 Power contacts 5V 5V 5V 5V

DC_1 Laser DC PDs DC PDs Temperature DC_2 DC_3
 concentrator 8 concentrator 7

Power budget:
 EL3104: 0.130 A (4x)
 EL4234: 0.265 A (0x)
 EL1124: 0.090 A (1x)
 EL2124: 0.130 A (4x)

 1.130 A

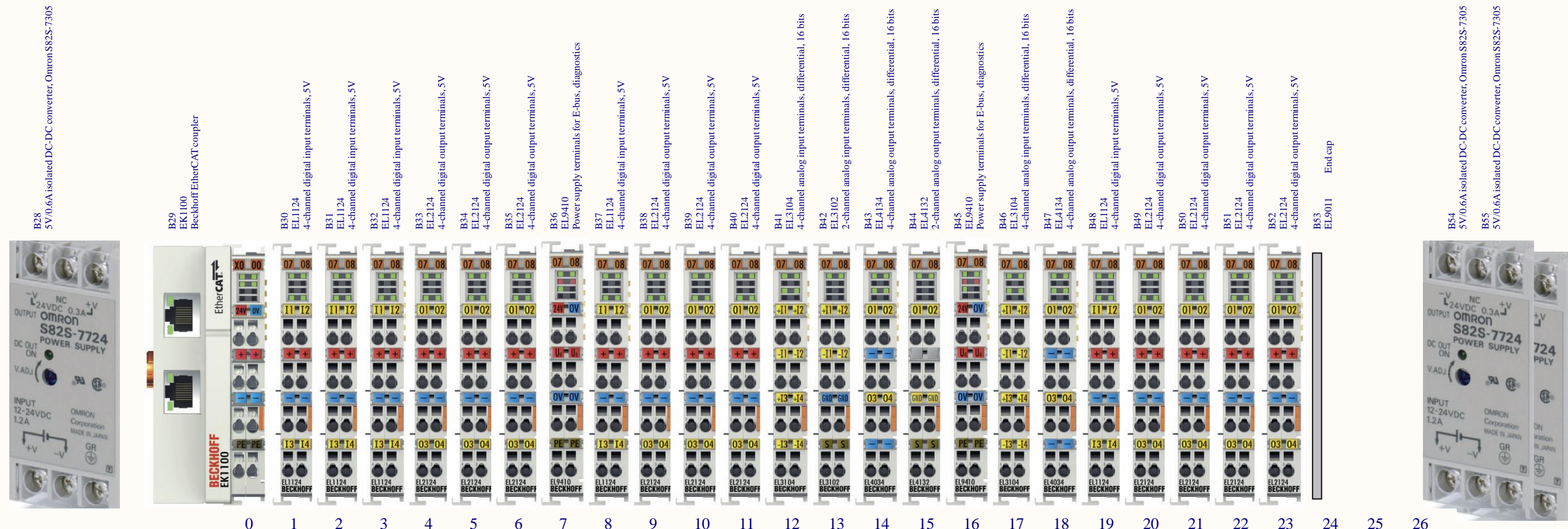
Power budget:
 EL3104: 0.130 A (2x)
 EL3102: 0.170 A (1x)
 EL1124: 0.090 A (0x)
 EL2124: 0.130 A (3x)

 0.820 A

Power budget:
 EL3692: 0.220 A (4x)

 0.880 A

Title EtherCAT Squeezer 3: Left Rail		
Size B	Number D1600509	Revision 5
Date:	11/15/2023	Sheet 2of 4
File:	C:\Users\... \EtherCATSqueezerc2.SchDoc Drawn By: Daniel Sigg	



B28 5V/0.6A isolated DC-DC converter, Omron S82S-7305
 B29 EK1100 Beckhoff EtherCAT coupler
 B30 EL1124 4-channel digital input terminals, 5V
 B31 EL1124 4-channel digital input terminals, 5V
 B32 EL1124 4-channel digital input terminals, 5V
 B33 EL2124 4-channel digital output terminals, 5V
 B34 EL2124 4-channel digital output terminals, 5V
 B35 EL2124 4-channel digital output terminals, 5V
 B36 EL9410 Power supply terminals for E-bus, diagnostics
 B37 EL1124 4-channel digital input terminals, 5V
 B38 EL2124 4-channel digital output terminals, 5V
 B39 EL2124 4-channel digital output terminals, 5V
 B40 EL2124 4-channel digital output terminals, 5V
 B41 EL3104 4-channel analog input terminals, differential, 16 bits
 B42 EL3102 2-channel analog input terminals, differential, 16 bits
 B43 EL4134 4-channel analog output terminals, differential, 16 bits
 B44 EL4132 2-channel analog output terminals, differential, 16 bits
 B45 EL9410 Power supply terminals for E-bus, diagnostics
 B46 EL3104 4-channel analog input terminals, differential, 16 bits
 B47 EL4134 4-channel analog output terminals, differential, 16 bits
 B48 EL1124 4-channel digital input terminals, 5V
 B49 EL2124 4-channel digital output terminals, 5V
 B50 EL2124 4-channel digital output terminals, 5V
 B51 EL2124 4-channel digital output terminals, 5V
 B52 EL2124 4-channel digital output terminals, 5V
 B53 EL9011 End cap
 B54 5V/0.6A isolated DC-DC converter, Omron S82S-7305
 B55 5V/0.6A isolated DC-DC converter, Omron S82S-7305

Ebus 24V
 Power contacts 5V
 DC_4
 Flipper/TTL IO
 TTFSS
 AM Mod. AOM Amp (Green)
 DC_5
 DC_6

Power budget:
 EL1124: 0.090 A (3x)
 EL2124: 0.130 A (3x)

 0.660 A

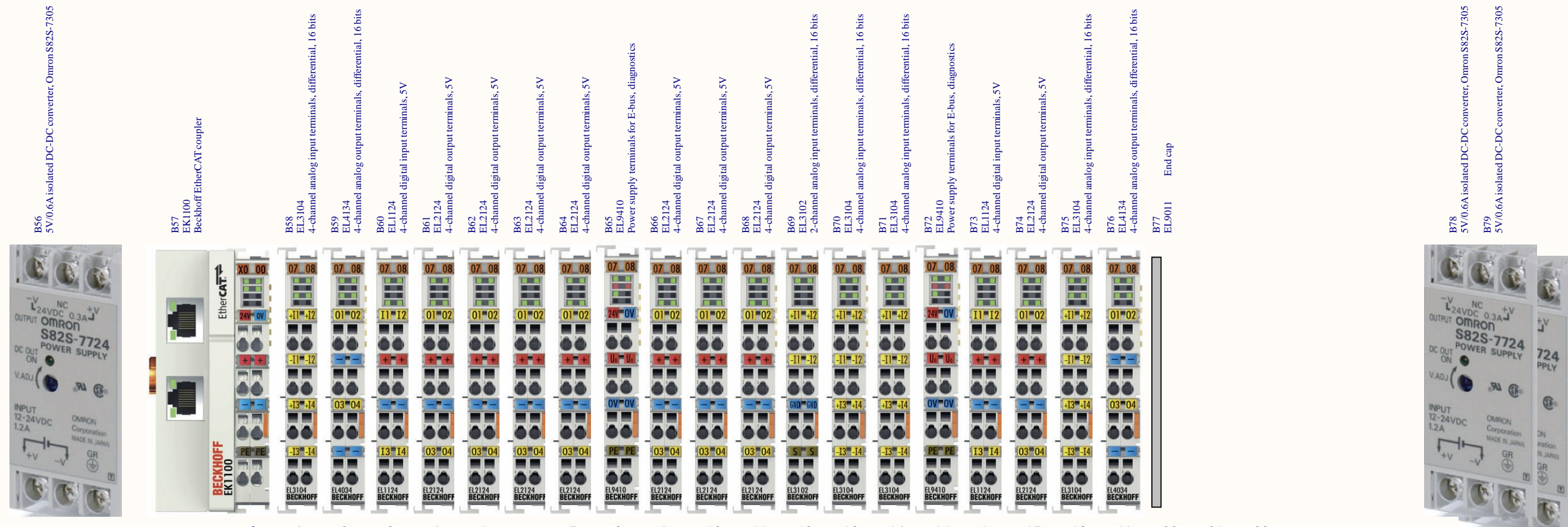
Power budget:
 EL3102: 0.170 A (1x)
 EL3104: 0.130 A (1x)
 EL4132: 0.210 A (1x)
 EL4134: 0.265 A (1x)
 EL1124: 0.090 A (1x)
 EL2124: 0.130 A (3x)

 1.255 A

Power budget:
 EL3104: 0.130 A (1x)
 EL4134: 0.265 A (1x)
 EL1124: 0.090 A (1x)
 EL2124: 0.130 A (4x)

 1.005 A

Title		
EtherCAT Squeezing 3: Middle Rail		
Size	Number	Revision
B	D1600509	5
Date:	11/15/2023	Sheet 3 of 4
File:	C:\Users\...EtherCATSqueezing3.SchDoc Drawn By: Daniel Sigg	



Ebus 24V
 Power contacts 5V

DC_7 AM Mod. AOM Amp (IR) DC PDs concentrator 9 Auxiliary concentrator 1 DC_8 DC_9

Power budget:
 EL3104: 0.130 A (1x)
 EL4134: 0.265 A (1x)
 EL1124: 0.090 A (1x)
 EL2124: 0.130 A (4x)

 1.005 A

Power budget:
 EL3104: 0.130 A (2x)
 EL3102: 0.170 A (1x)
 EL1124: 0.090 A (0x)
 EL2124: 0.130 A (3x)

 0.820 A

Power budget:
 EL3104: 0.130 A (1x)
 EL4134: 0.265 A (1x)
 EL1124: 0.090 A (1x)
 EL2124: 0.130 A (1x)

 0.615 A

Title EtherCAT Squeezer 3: Right Rail		
Size B	Number D1600509	Revision 5
Date:	11/15/2023	Sheet 4of 4
File:	C:\Users\...EtherCATSqueezerC4.SchDoc Drawn By:Daniel Sigg	