

Jacob Holm Industri, USA

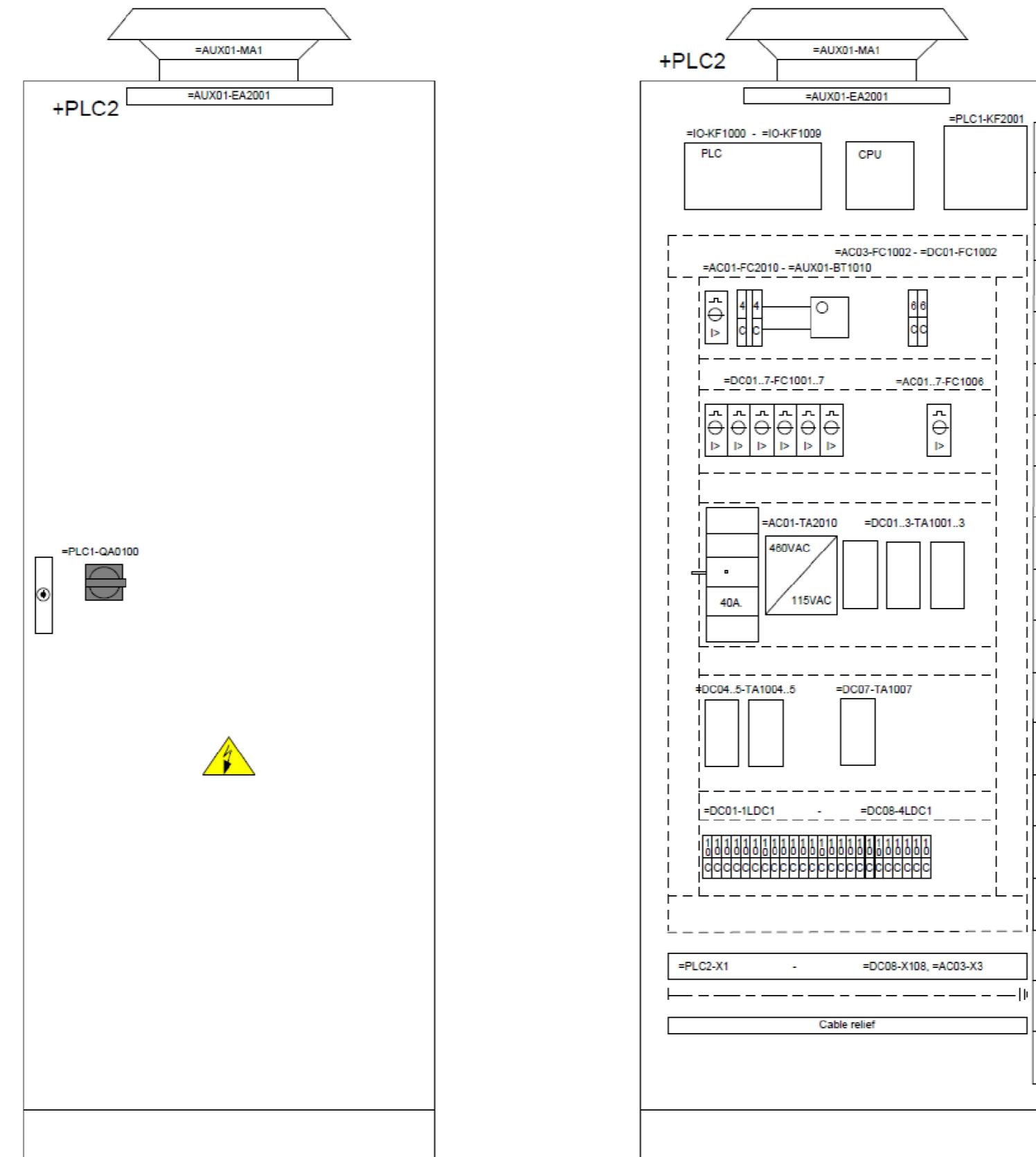
PLC Panel 2

+PLC2



Dan-Web Machinery A/S > Røddikvej 82 > DK-8464 Galten > Tel. +45 87 43 95 00

0	1	2	3	4	5	6	7	8	9
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Power distribution



This diagram illustrates the electrical control panel setup for PLC2.1. The top header shows numbered slots from 0 to 9. The main panel features three vertical bus bars labeled 1, 3, and 5. Bus bar 1 is connected to the left side of a three-pole circuit breaker (3VA6140-5HL31-0AA0 In. 40A). The circuit breaker has terminals 1, 3, and 5. Terminals 1 and 3 are connected to the top of the breaker, while terminal 5 is connected to the bottom. A red indicator light is mounted on the breaker. The bottom of the breaker connects to bus bar 3. Bus bar 3 also receives power from PLC2-X1 PT16N via terminals 210-03, 210-04, and 210-05. Bus bar 3 then splits into three phases: L1, L2, and L3, each rated at 300.0 A. Bus bar 5 is connected to the right side of the circuit breaker. Below the circuit breaker, there is a connection point for PLC2.1 =PLC2-QA0100. The bottom section shows the connection between PLC2-X1 and the power source.

0 1 2 3 4 5 6 7 8 9

210-00
210-01
210-02

L1 → 300.0
L2 → 300.0
L3 → 300.0

+PLC2.1
=PLC2-QA0100
3VA6140-5HL31-0AA0
In. 40A

I_r: Thermal setting: 30A
I_i: Magnetic setting: 300A
Tid/s: 1

+PLC2.1
=PLC2-X1
PT16N

210-03
210-04
210-05

Voltage 3x460V+PE 60Hz

Total FLA 30A

Largest FLA 1,0kW / 2,4A

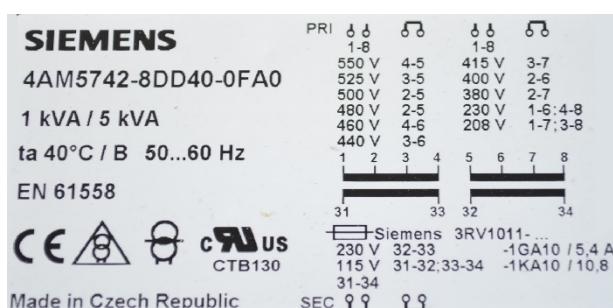
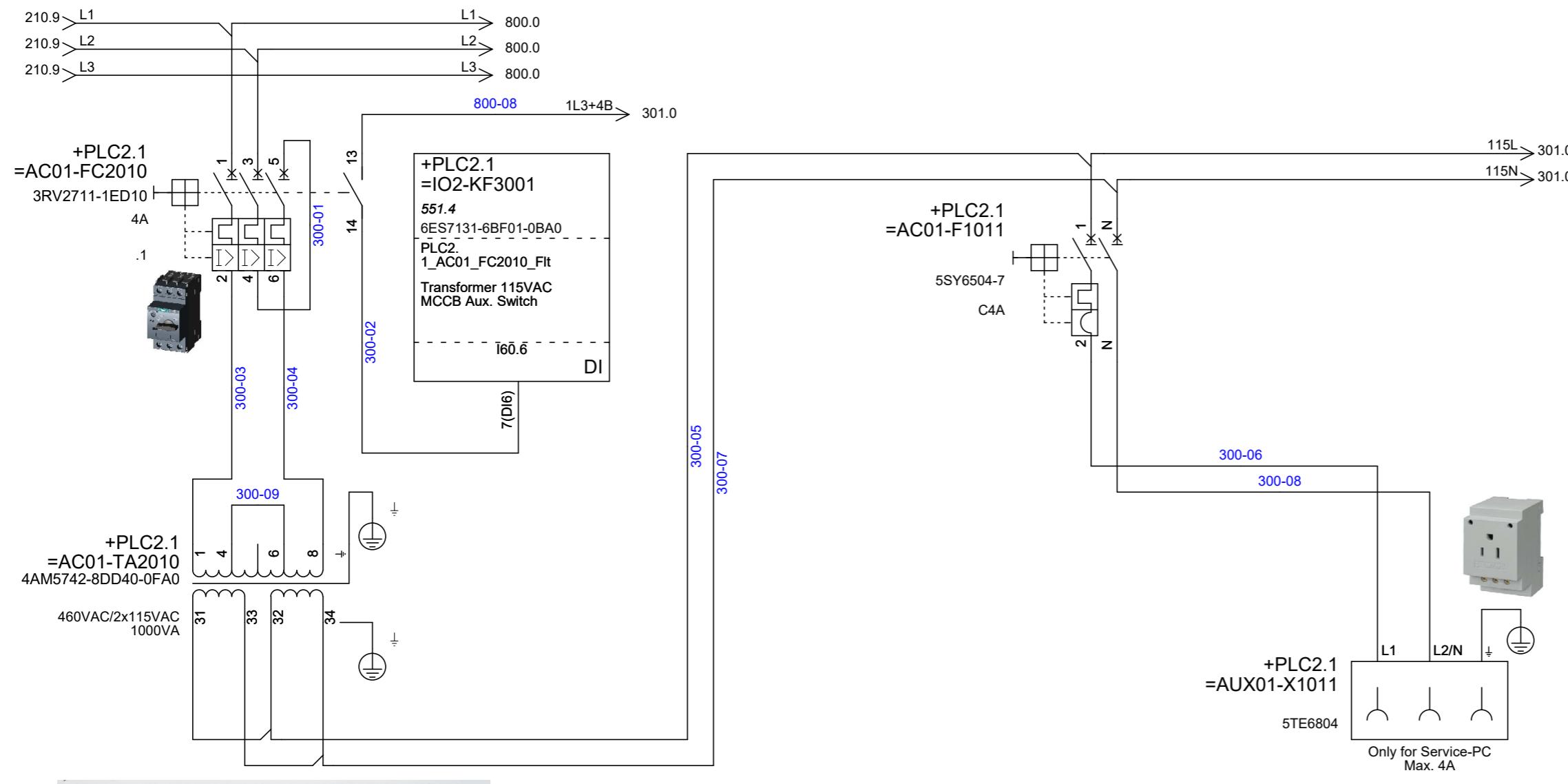
Max. Short-circuit current 35kA

Overcurrent protection provided at main supply terminals





115V AC Power Supply

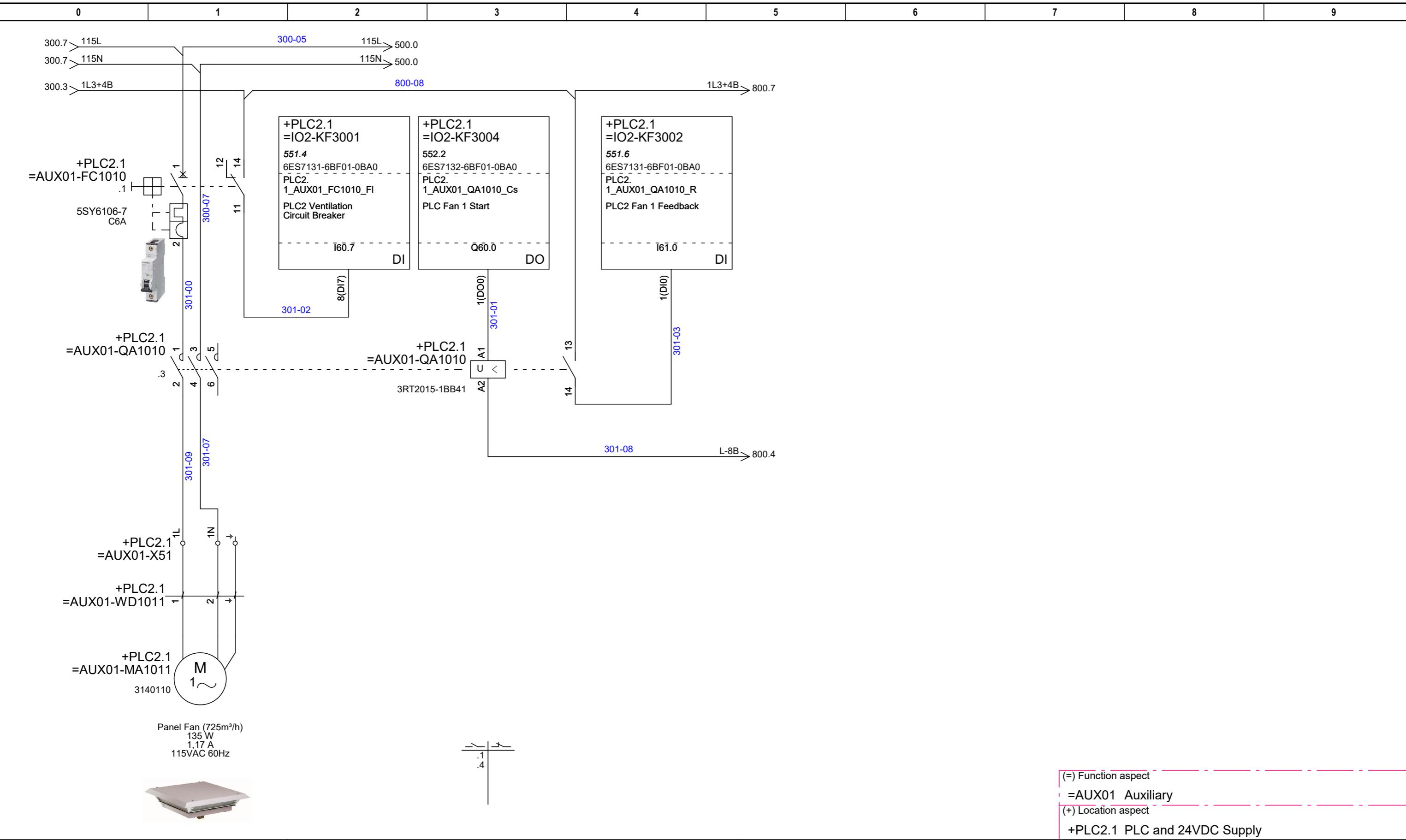


(≡) Function aspect

=AC01 115V AC Control Power

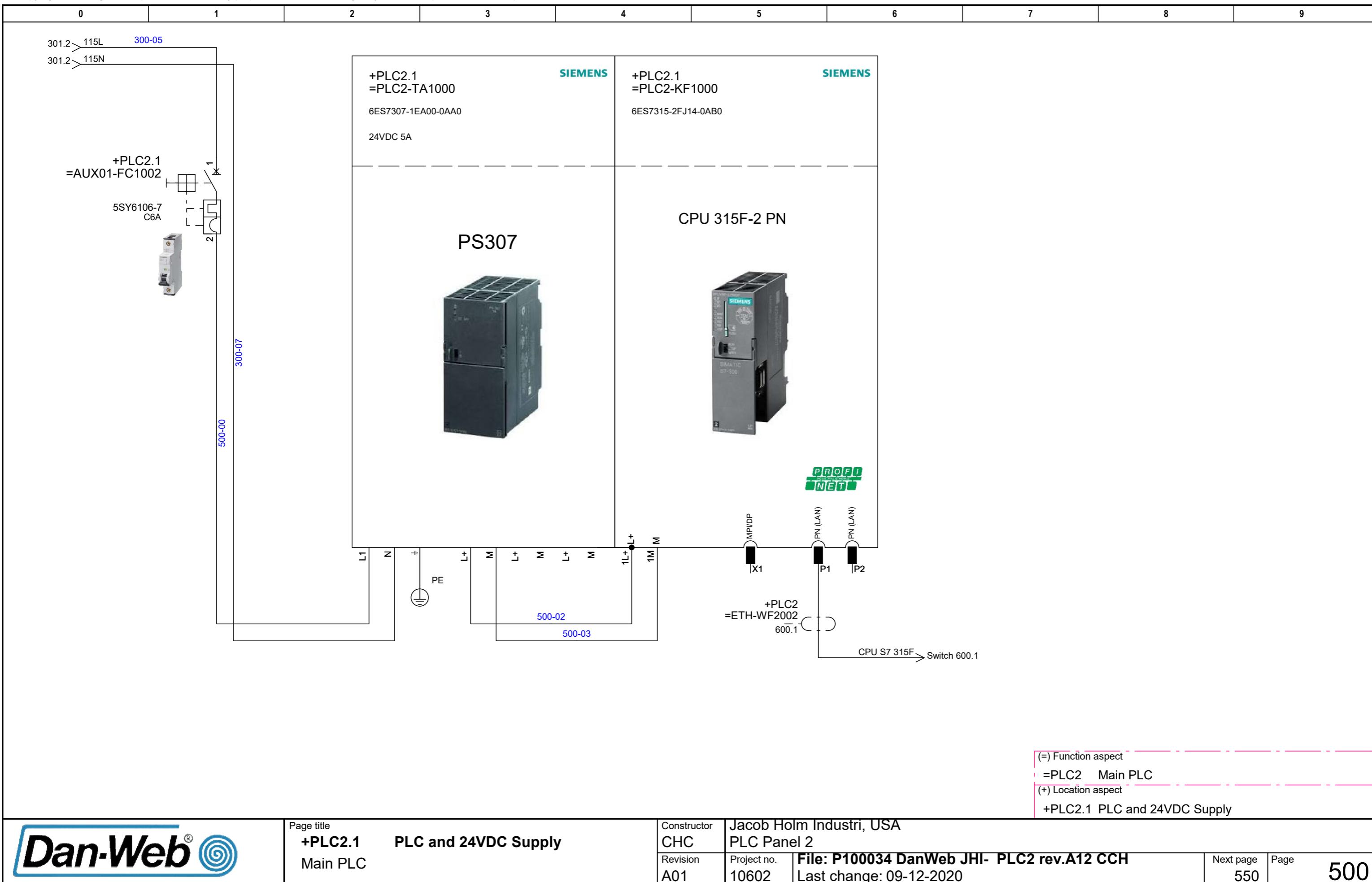
(+) Location aspect

+PLC2.1 PLC and 24VDC Supply



Distributed I/O system





0	1	2	3	4	5	6	7	8	9

(=) Function aspect

=IO I/O system

(+) Location aspect

+PLC1.1 PLC and 24VDC Supply

Dan-Web®

Page title
+PLC1.1 PLC and 24VDC Supply
 Distributed I/O-systems

Constructor
CHC
 PLC Panel 2

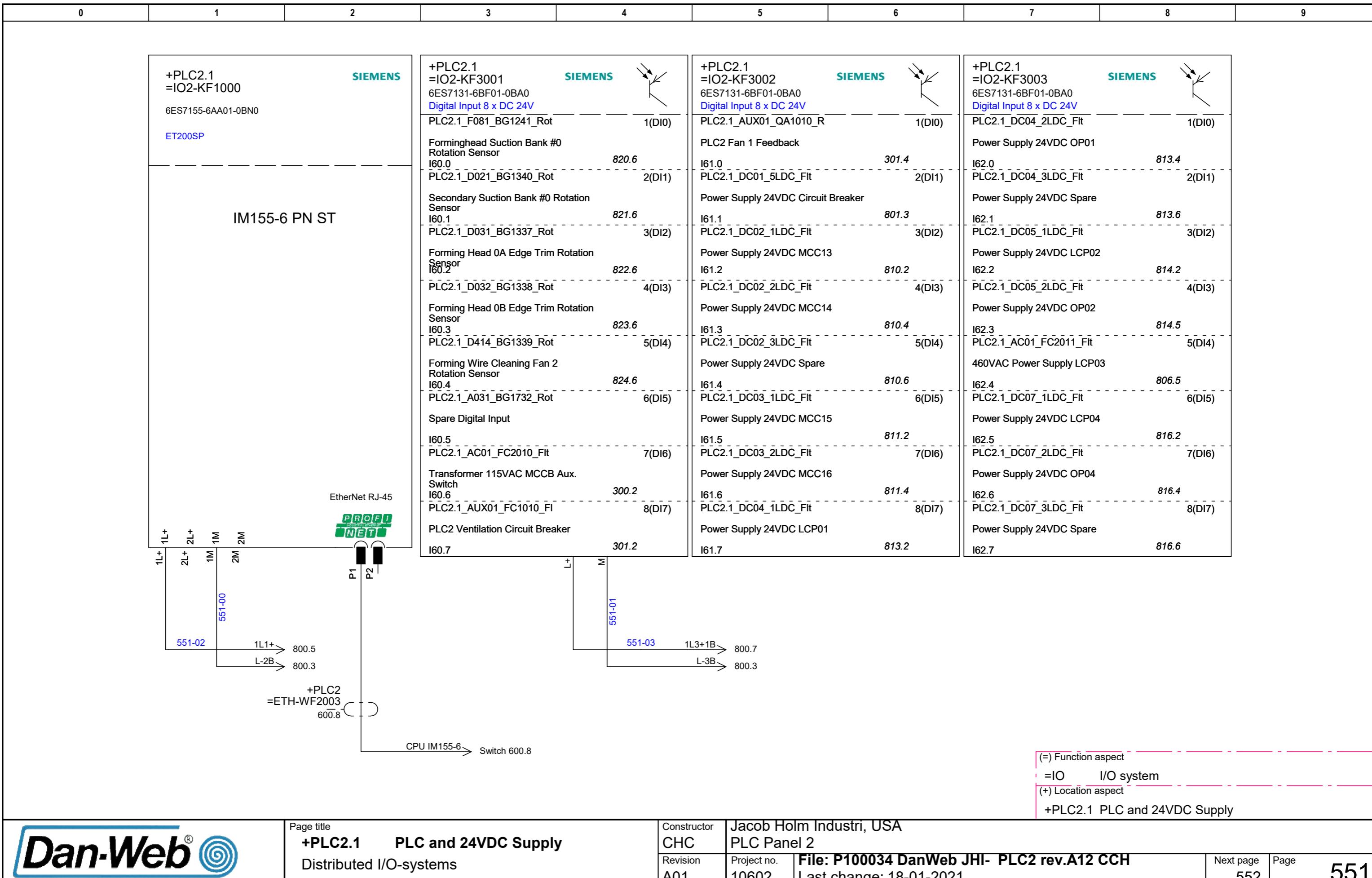
Revision
A01

Project no.
10602

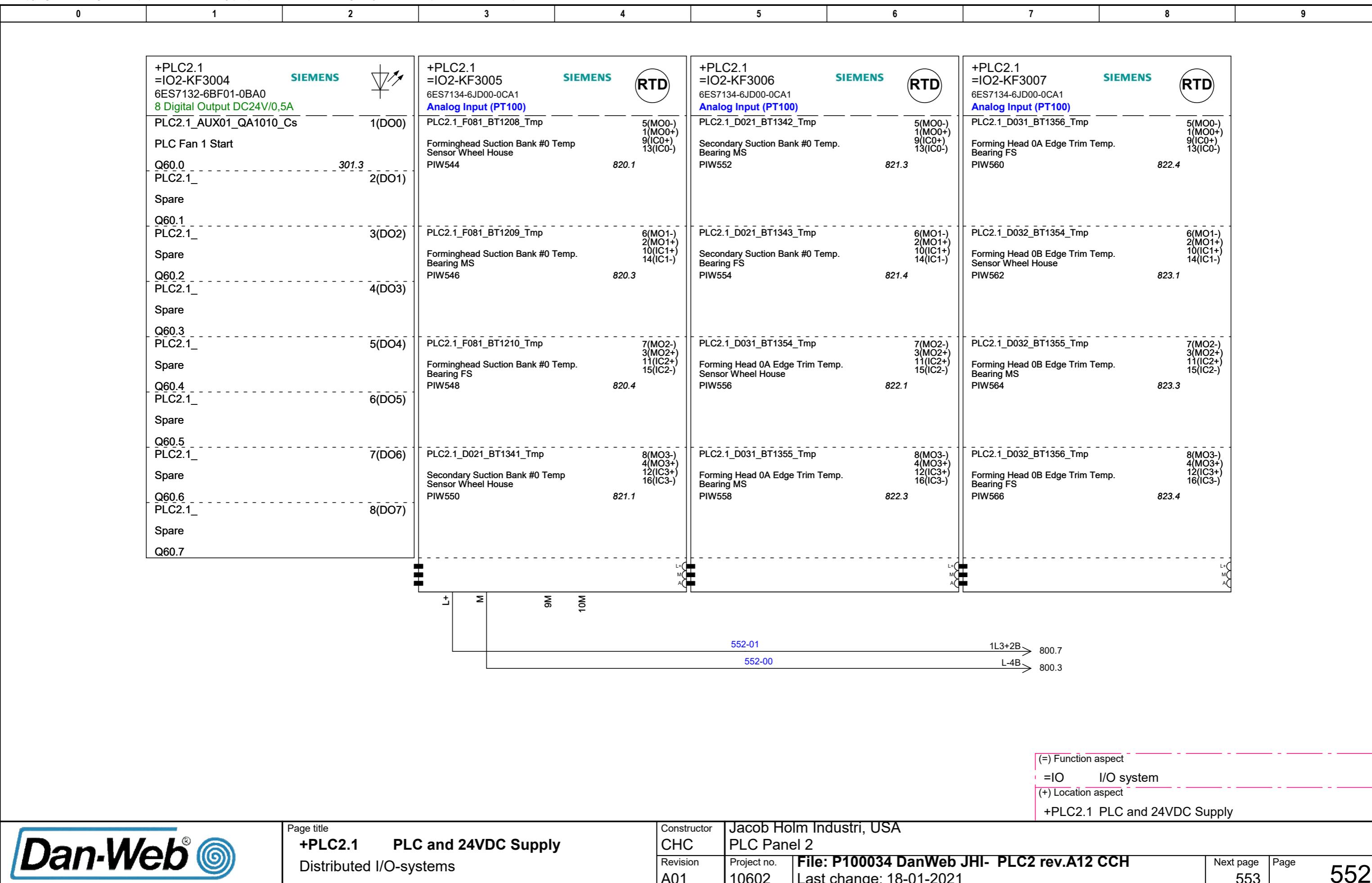
Last change: 27-01-2021

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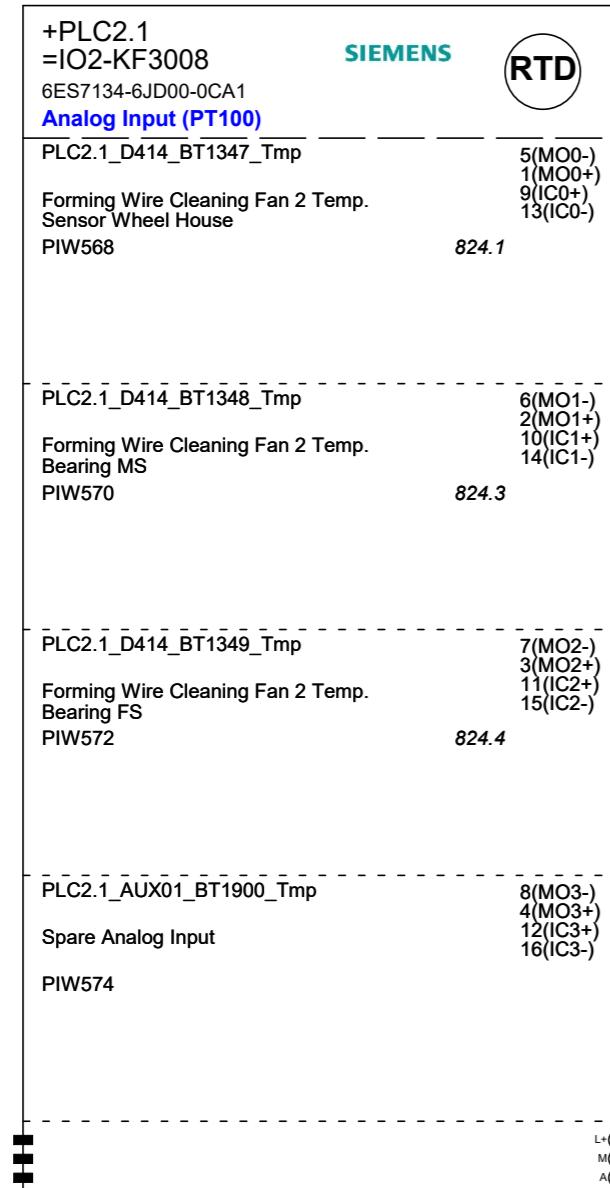
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(=) Function aspect
 =IO I/O system
 (+) Location aspect
 +PLC2.1 PLC and 24VDC Supply



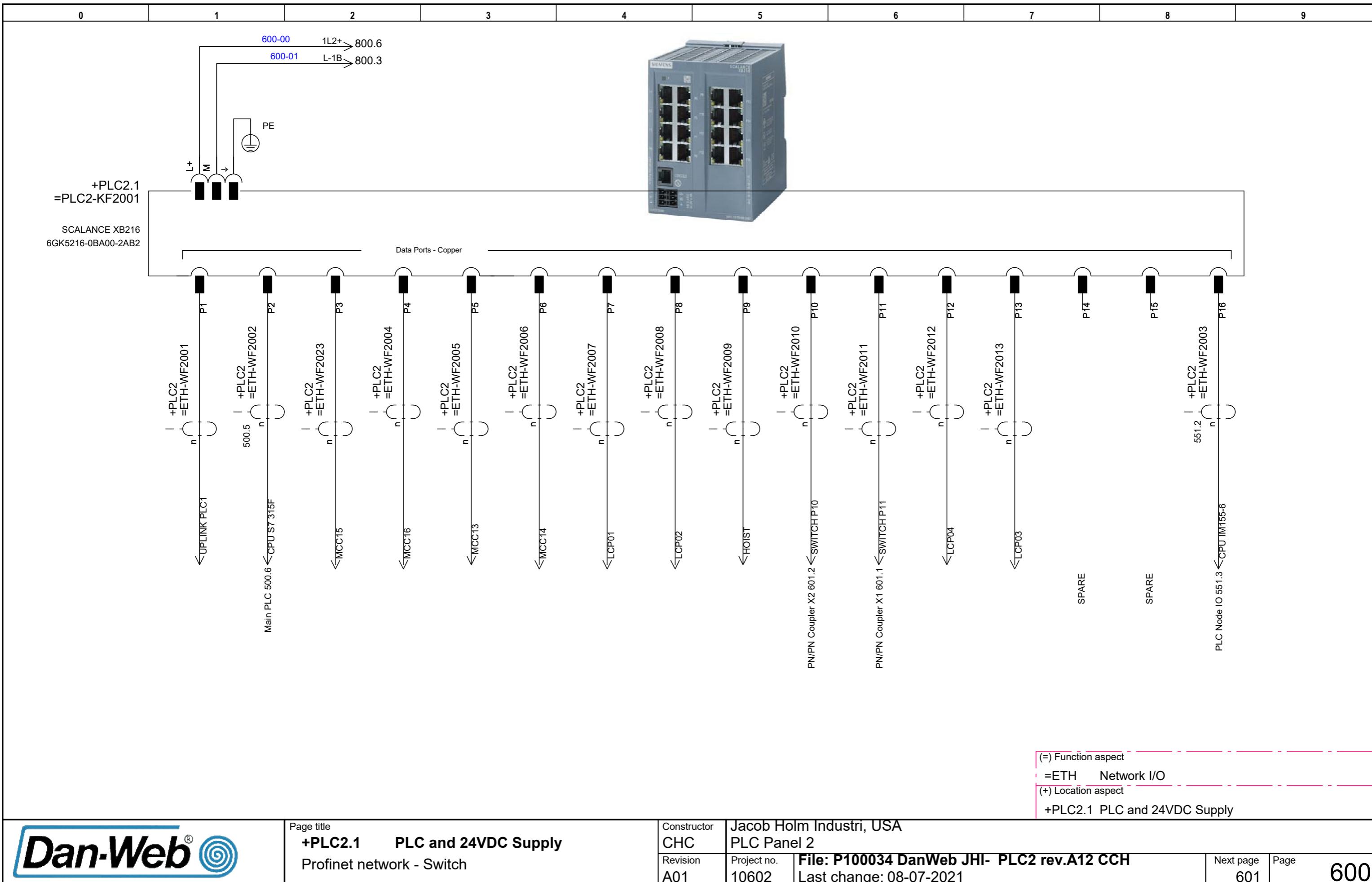
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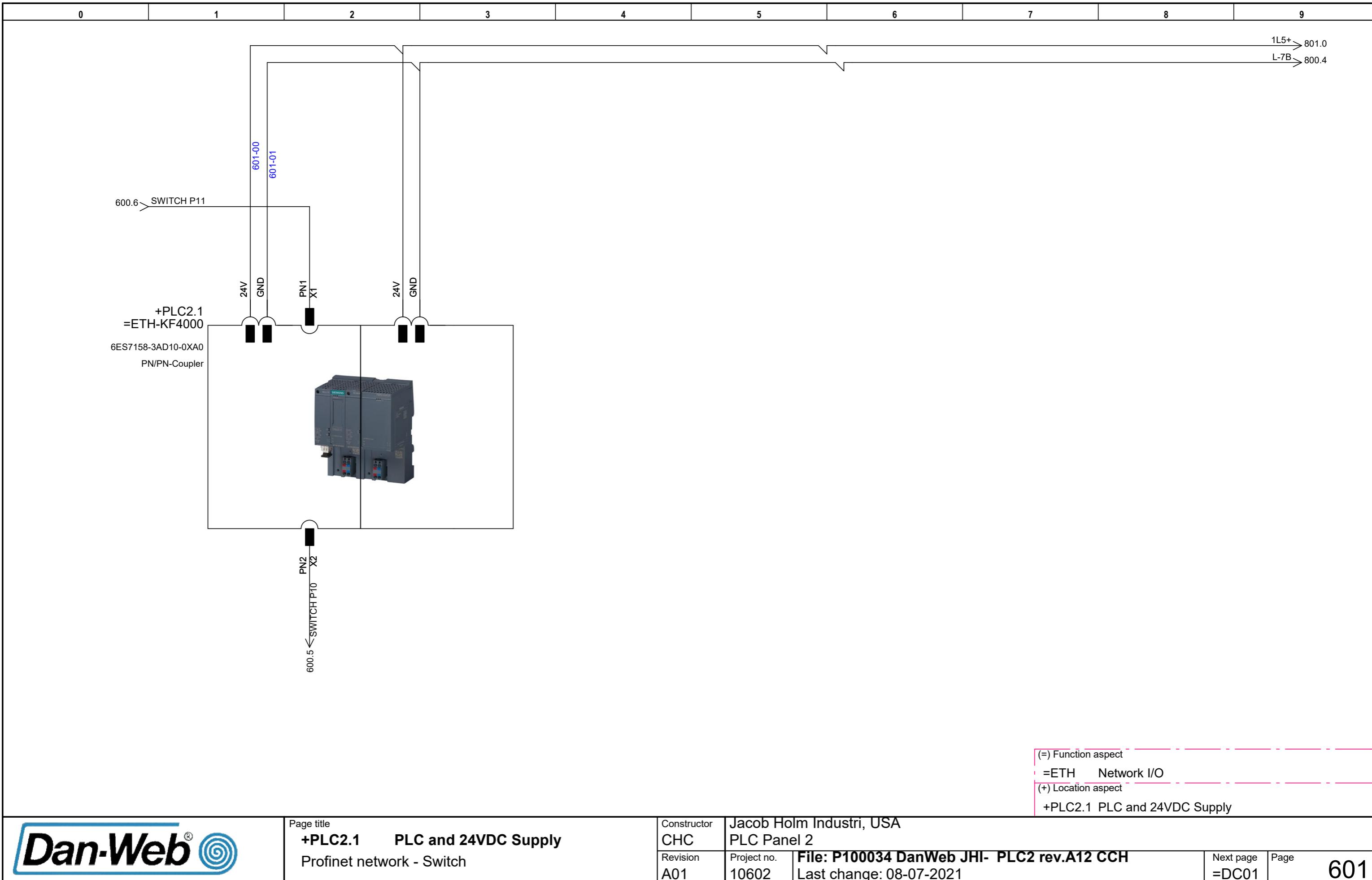


(=) Function aspect
 (=) I/O system
 (+) Location aspect
 +PLC1.1 PLC and 24VDC Supply



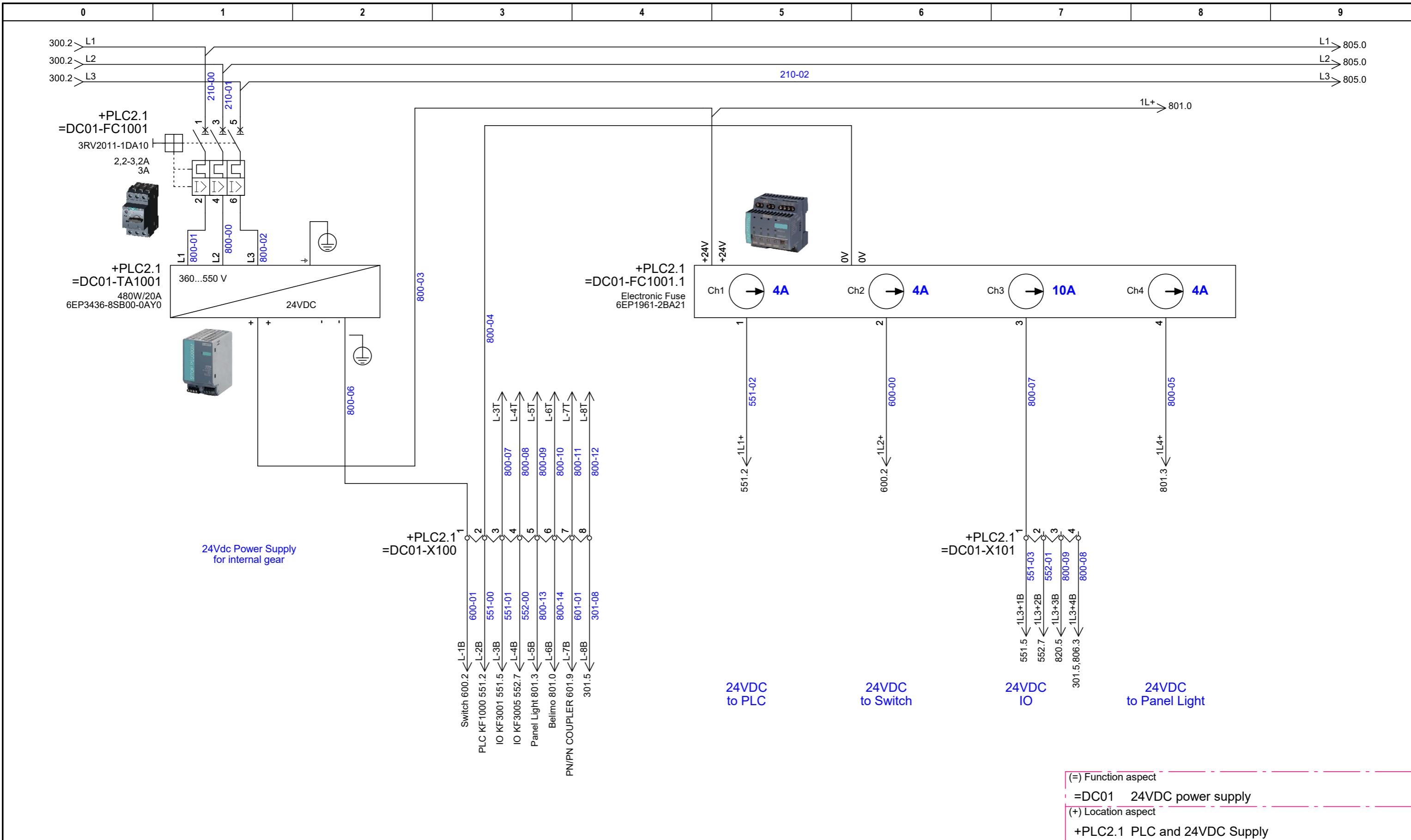
Network I/O

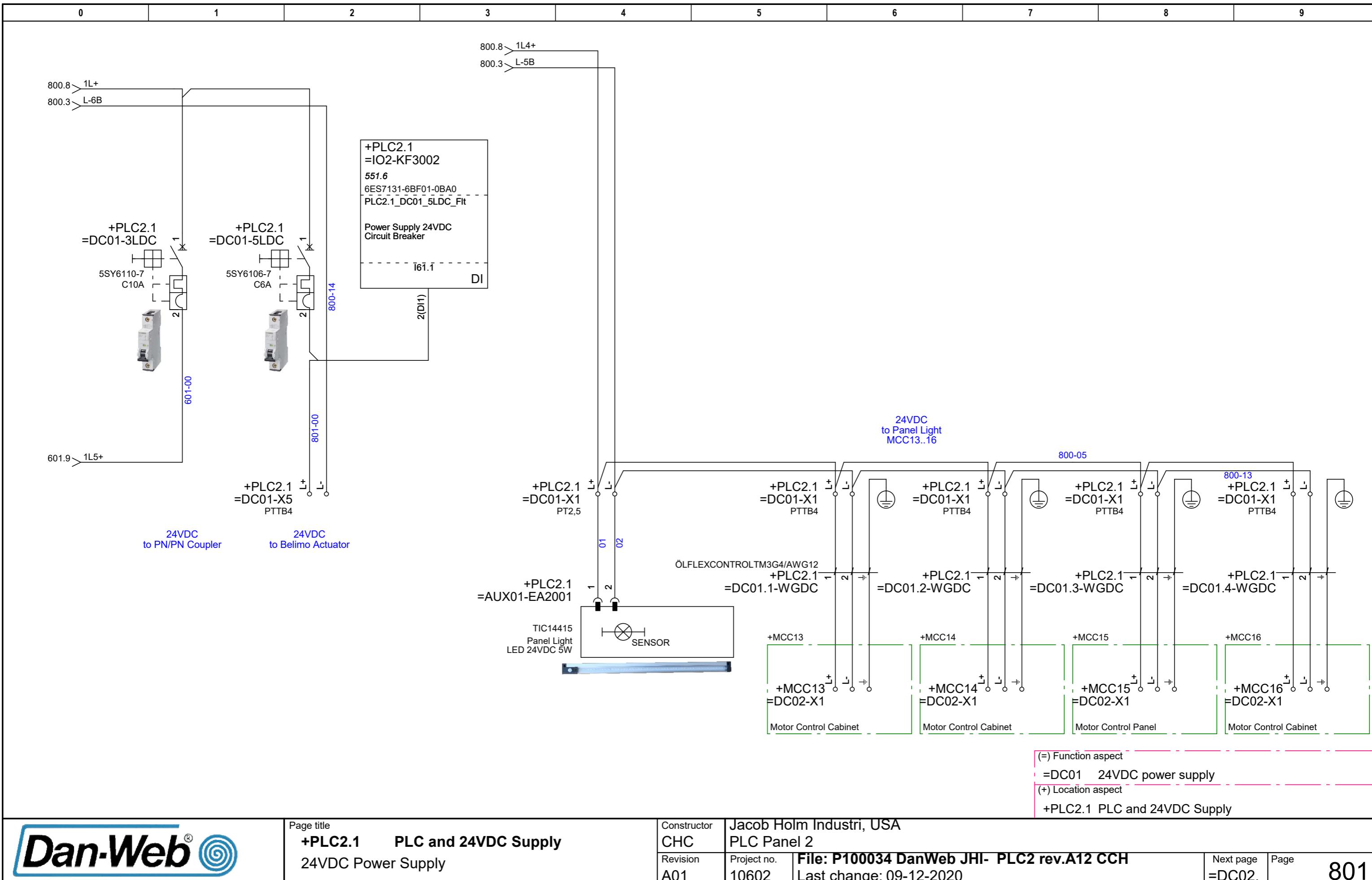




24VDC Power Supply (Internal)

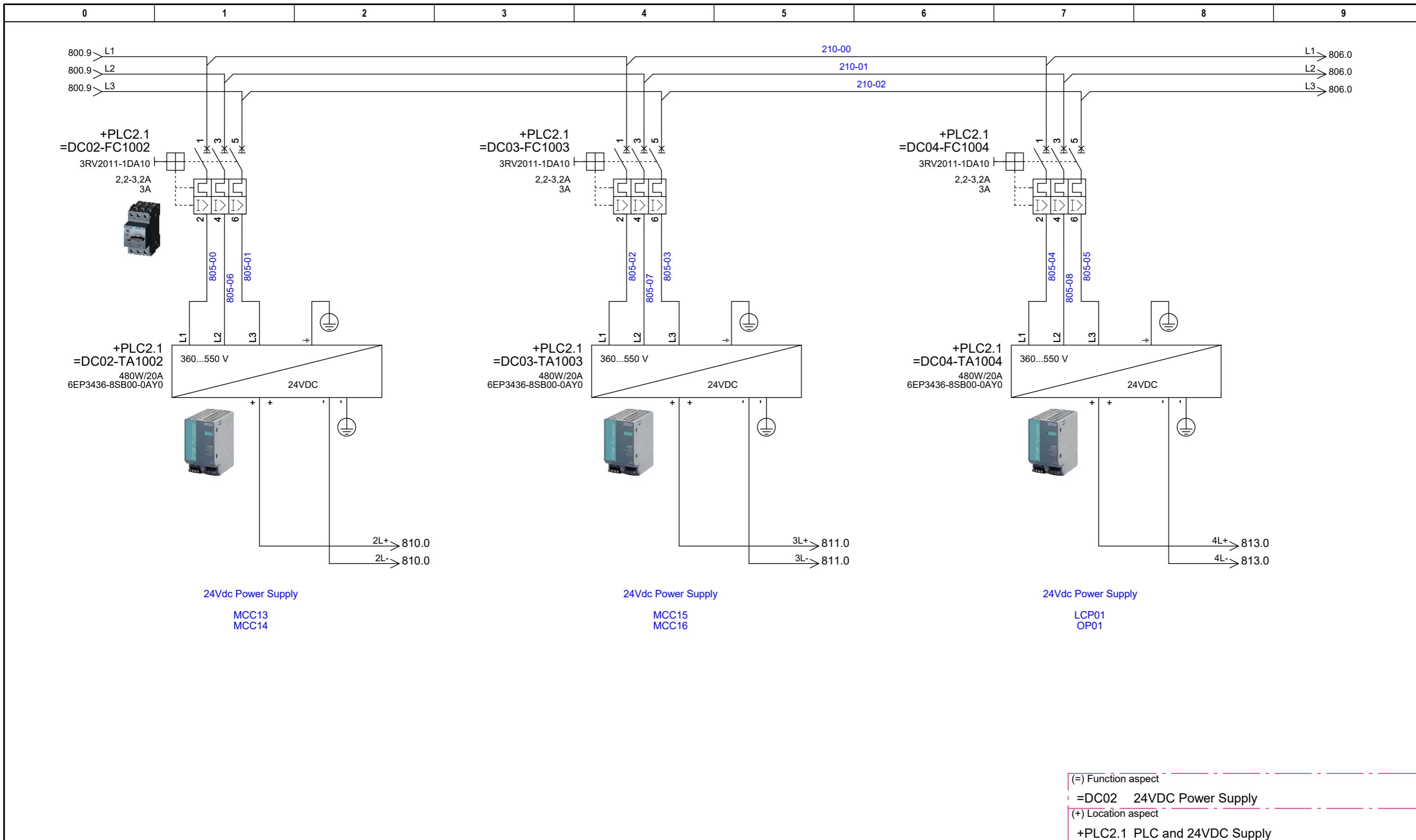


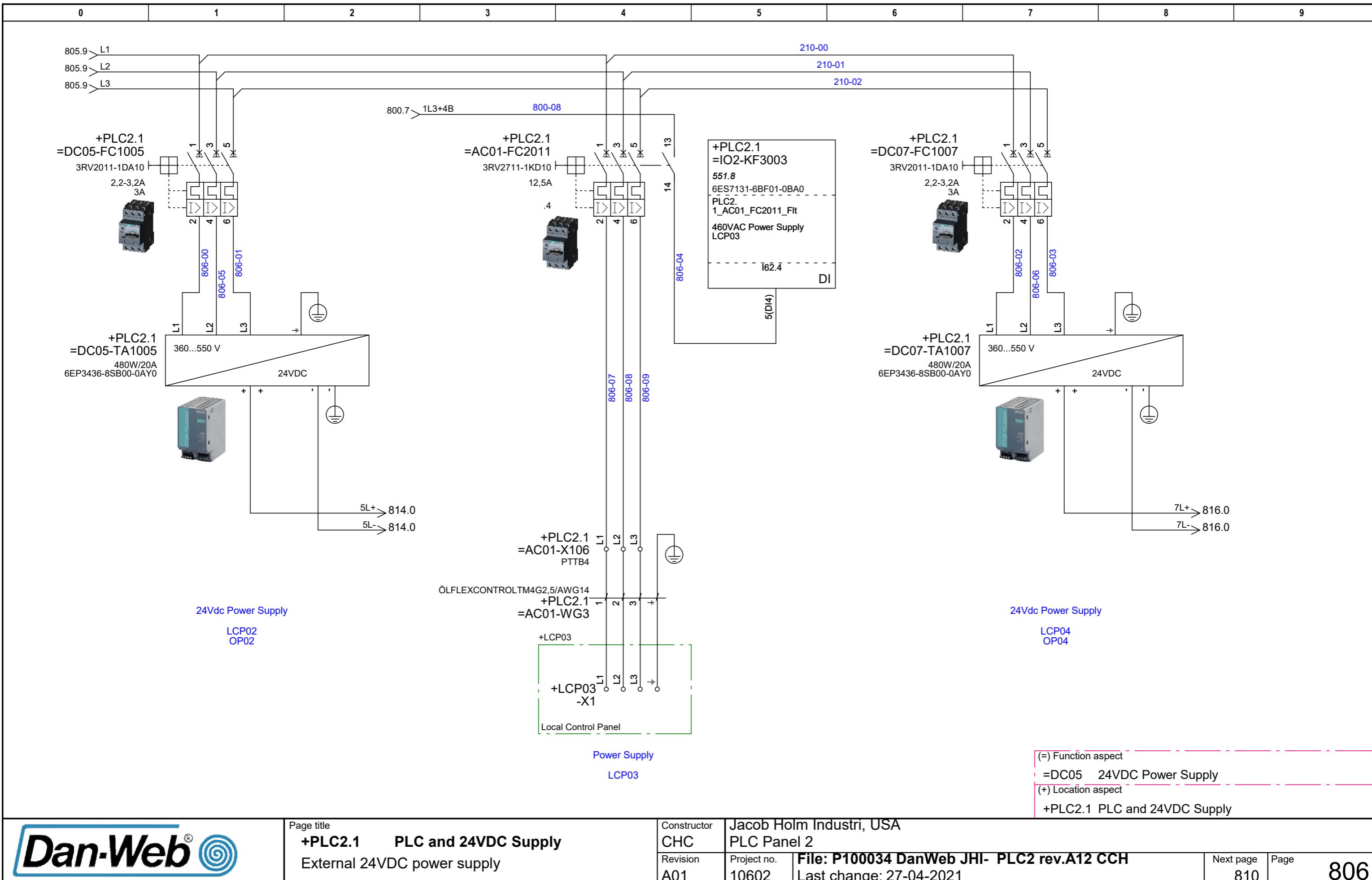


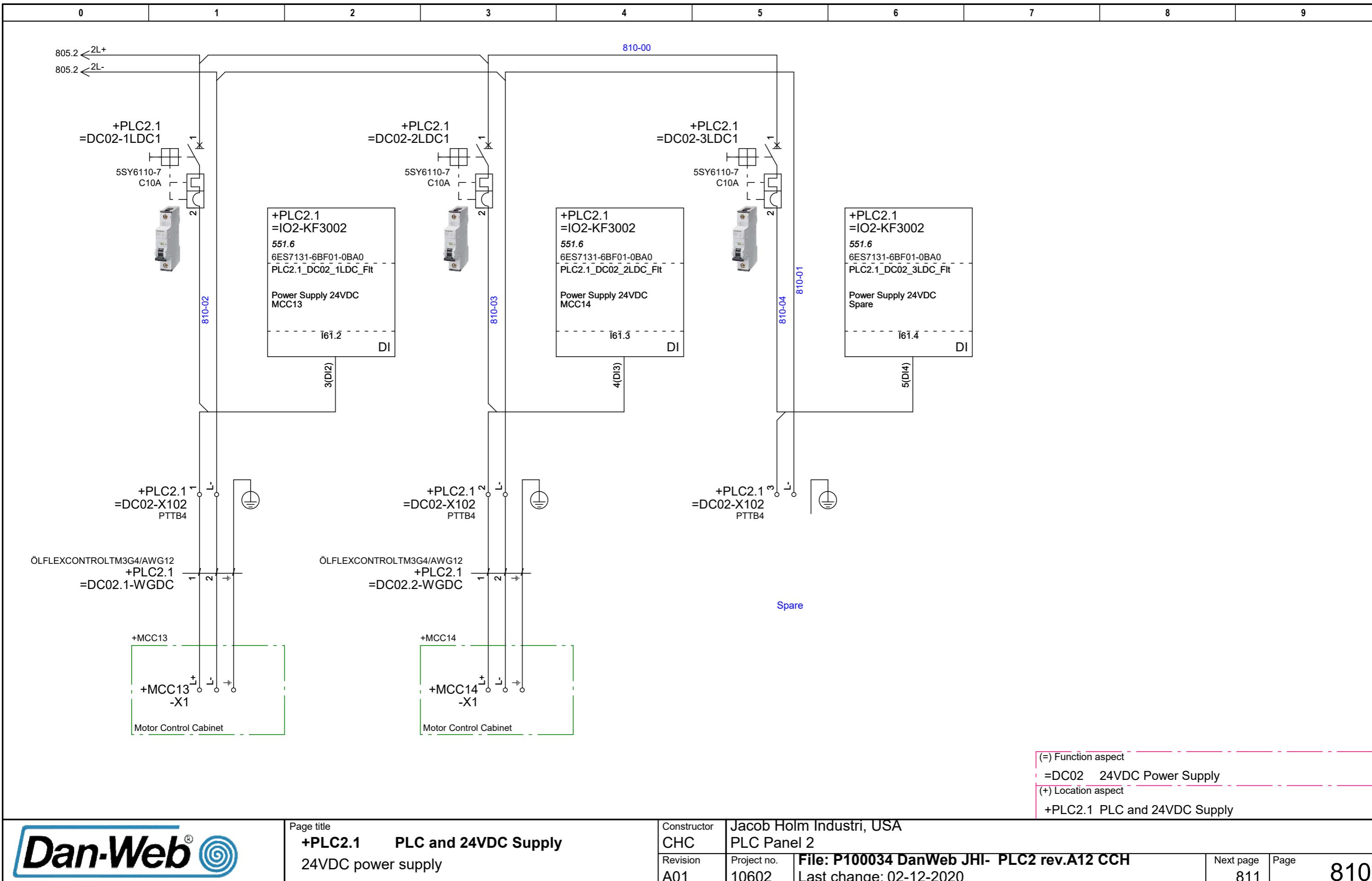


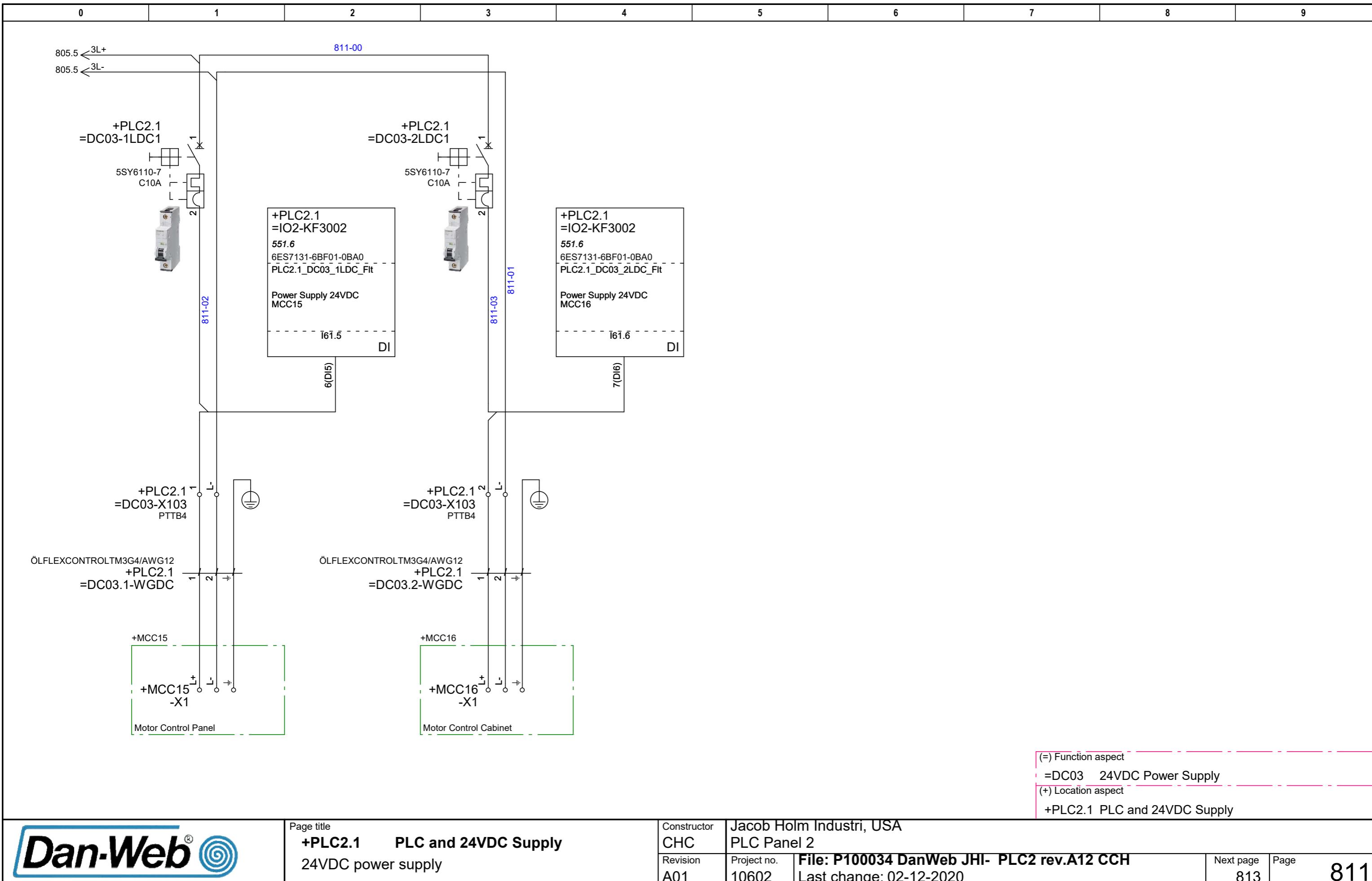
24VDC Power Supply (External)

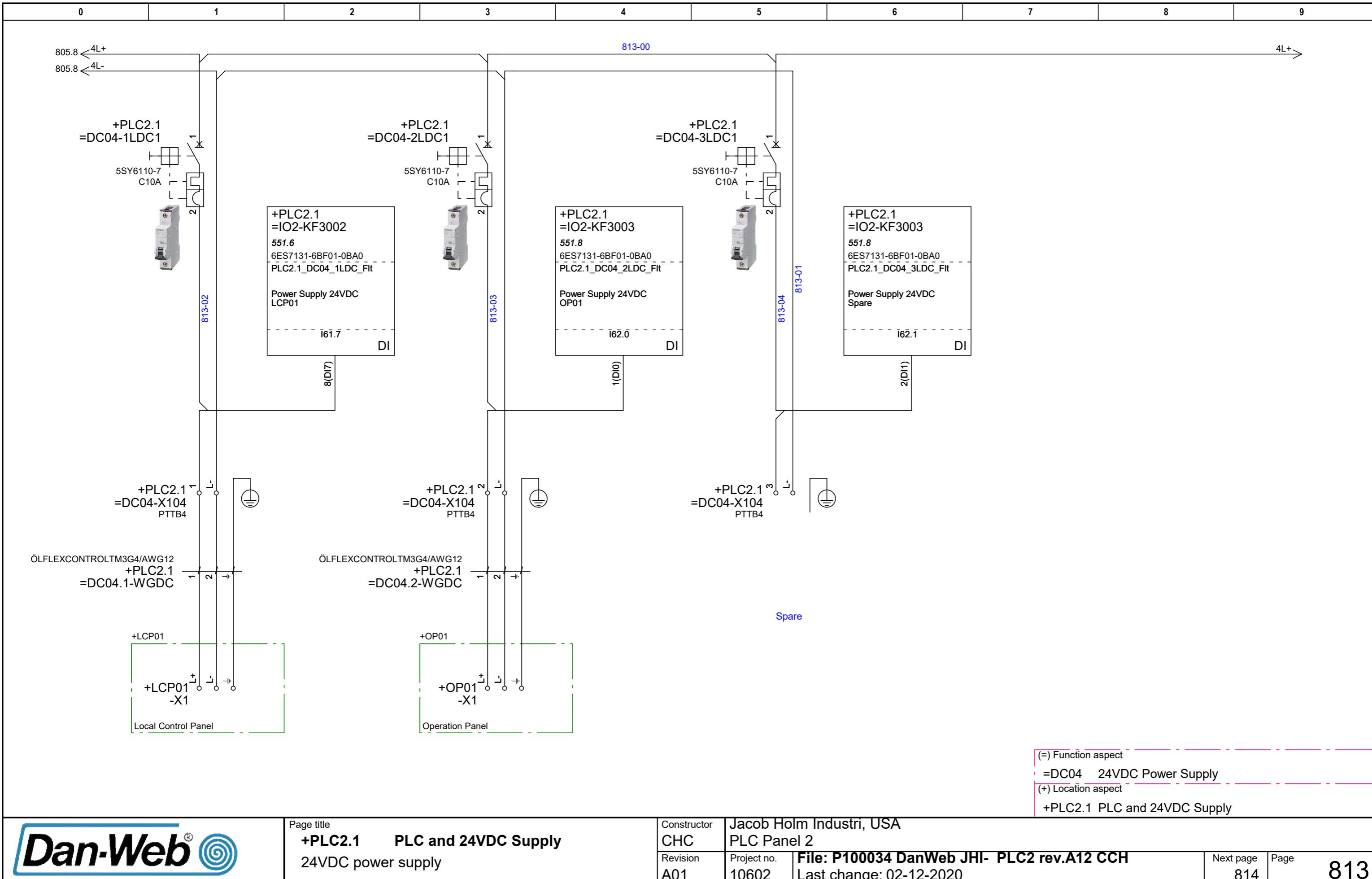


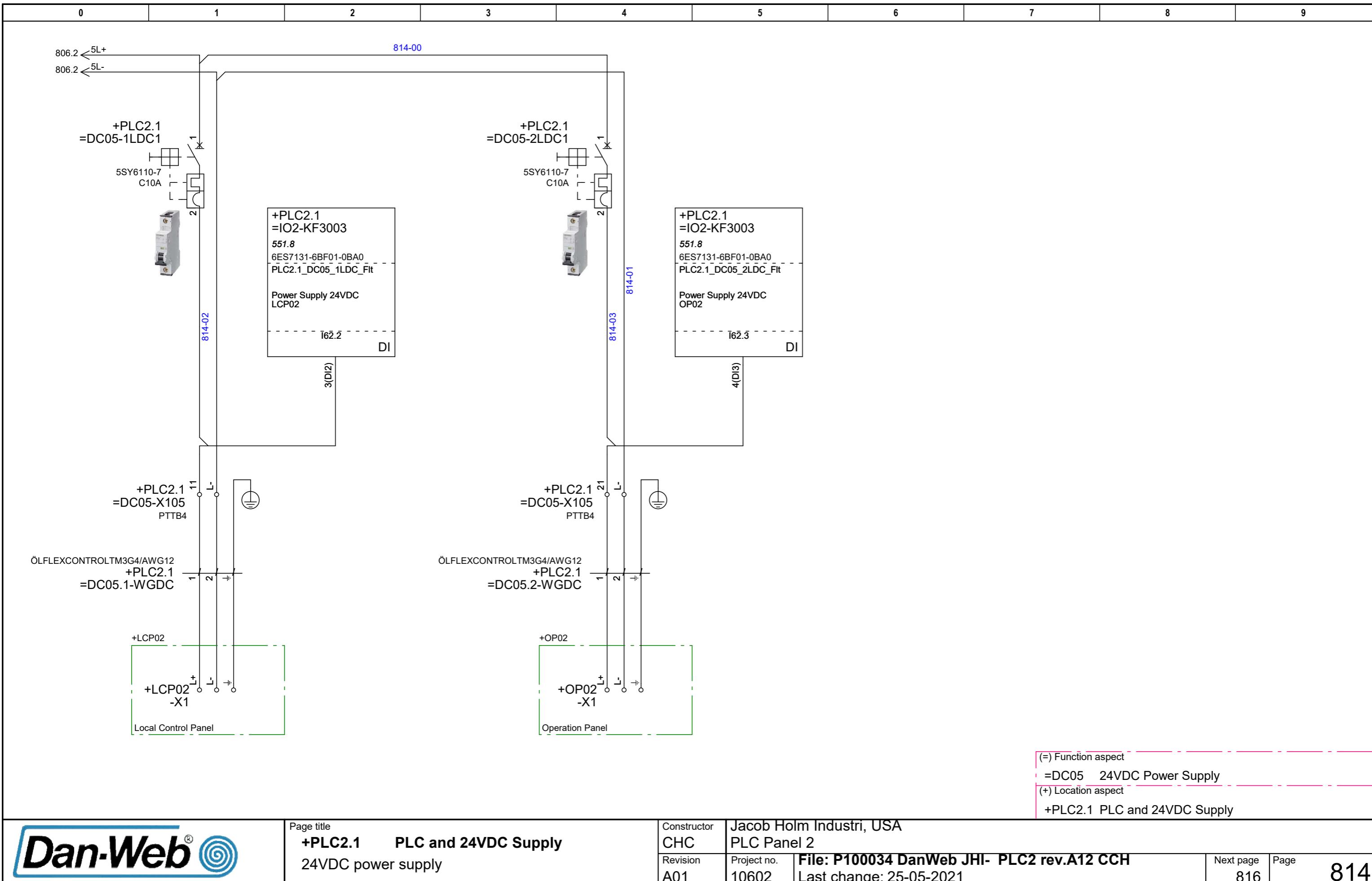


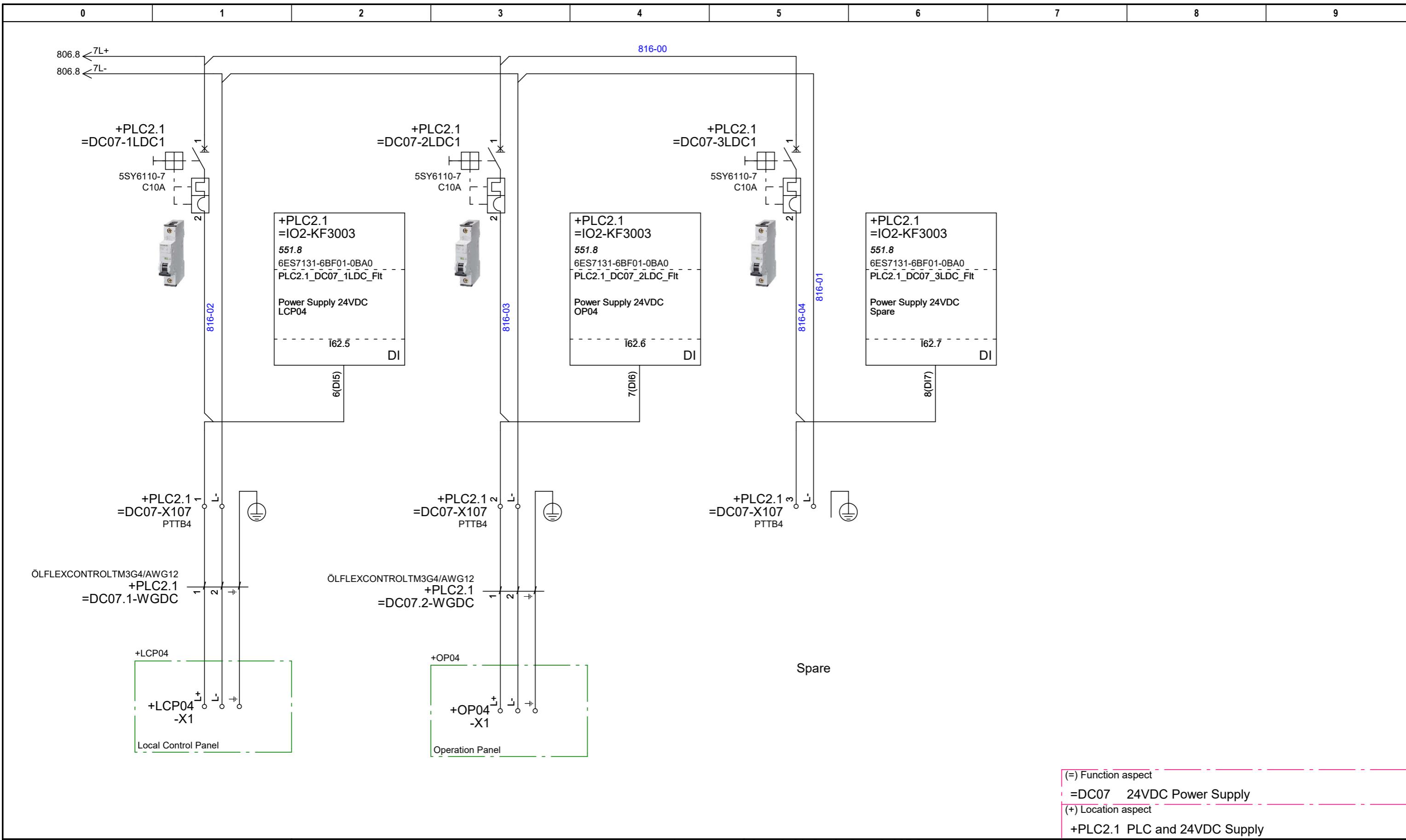




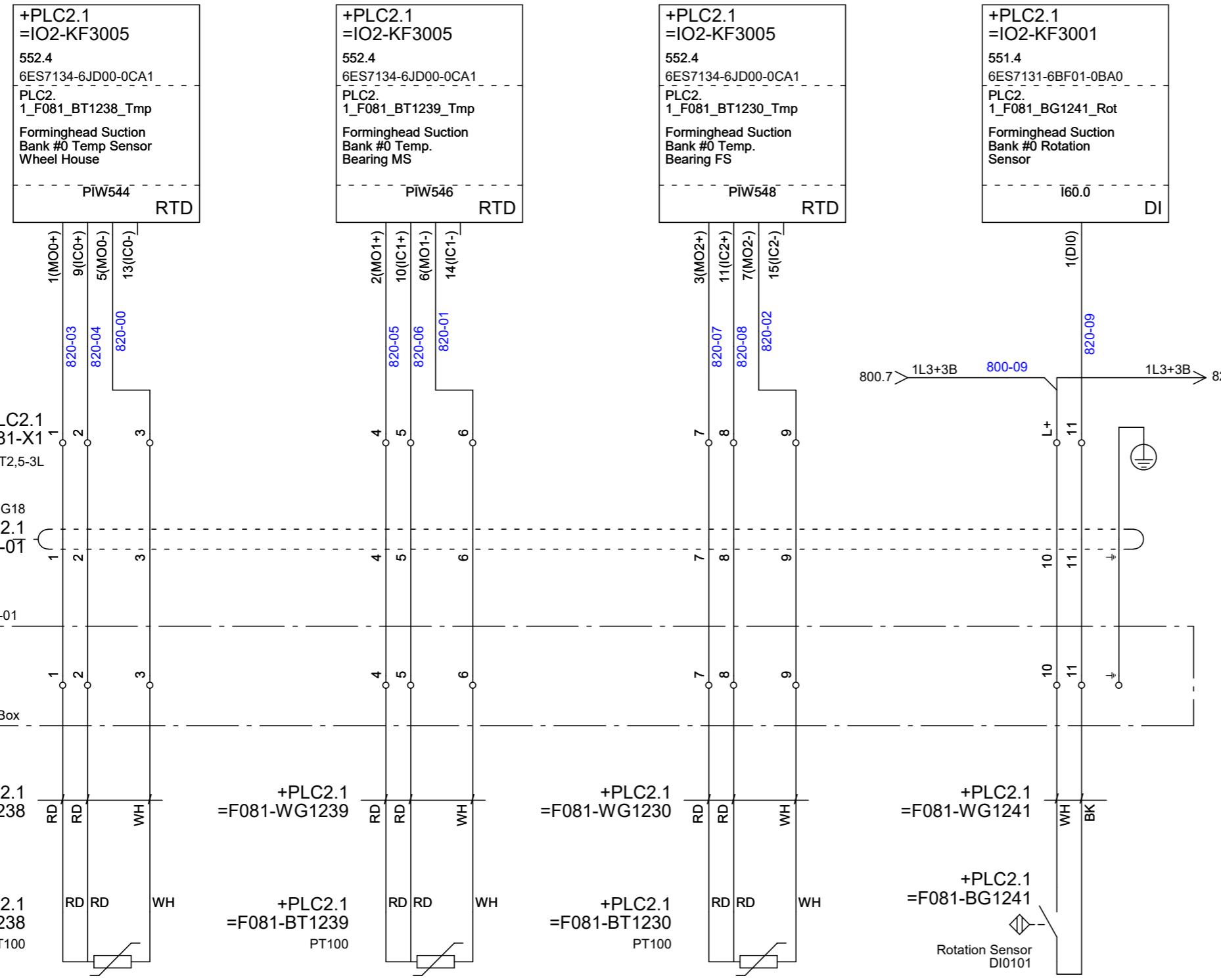






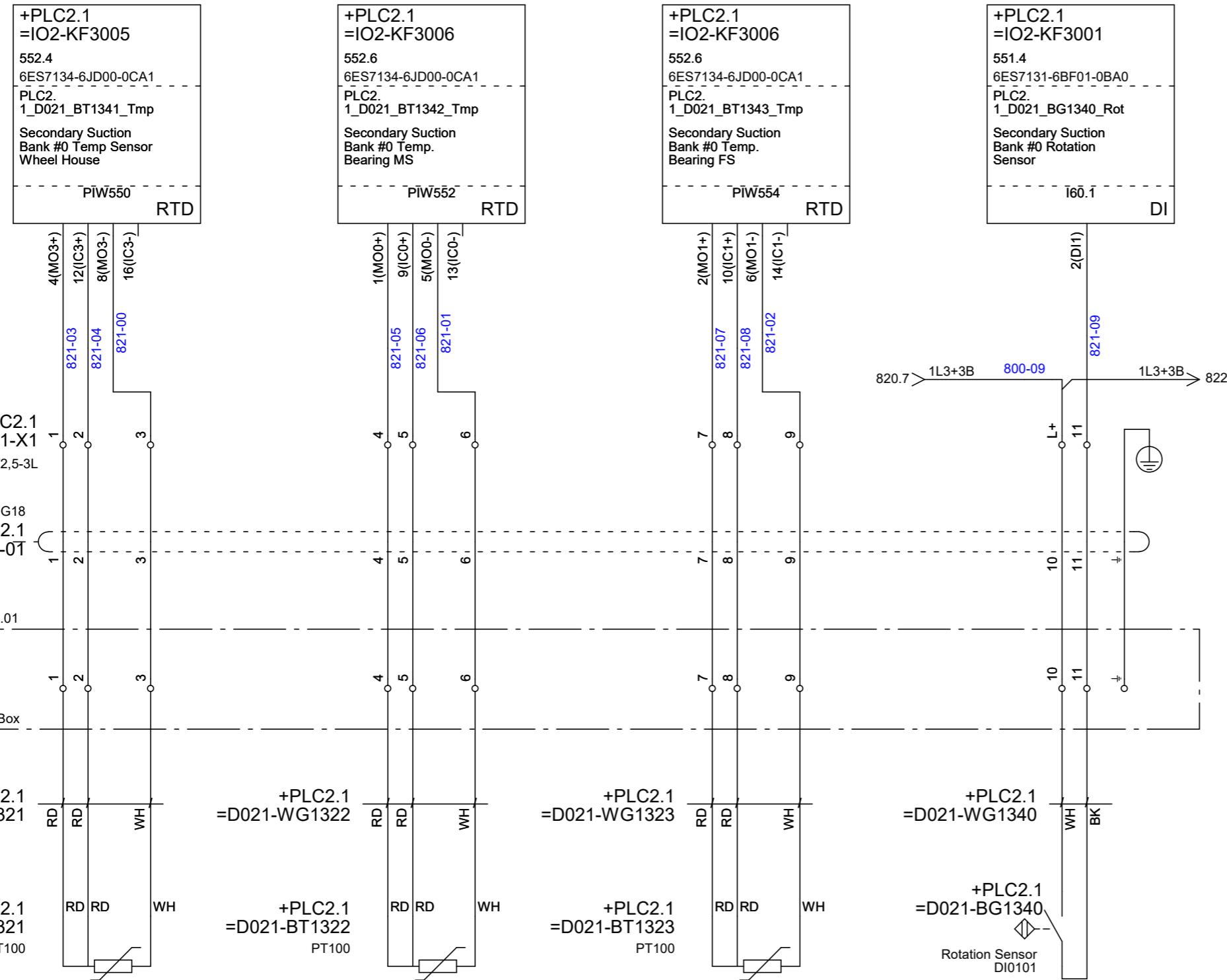


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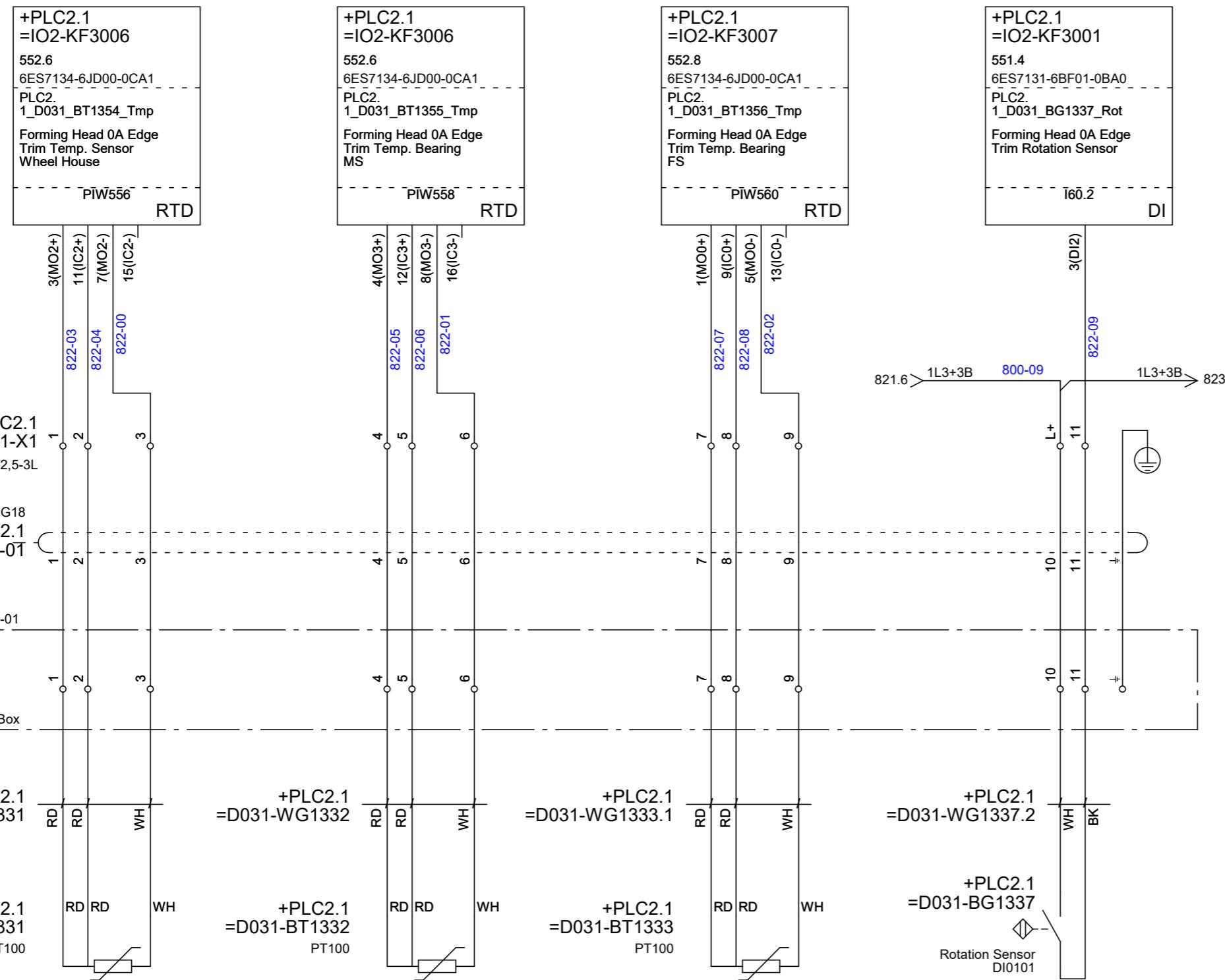


(=) Function aspect
 =F081 Forminghead Suction Bank #0
 (+) Location aspect
 +PLC2.1 PLC and 24VDC Supply

0 1 2 3 4 5 6 7 8 9

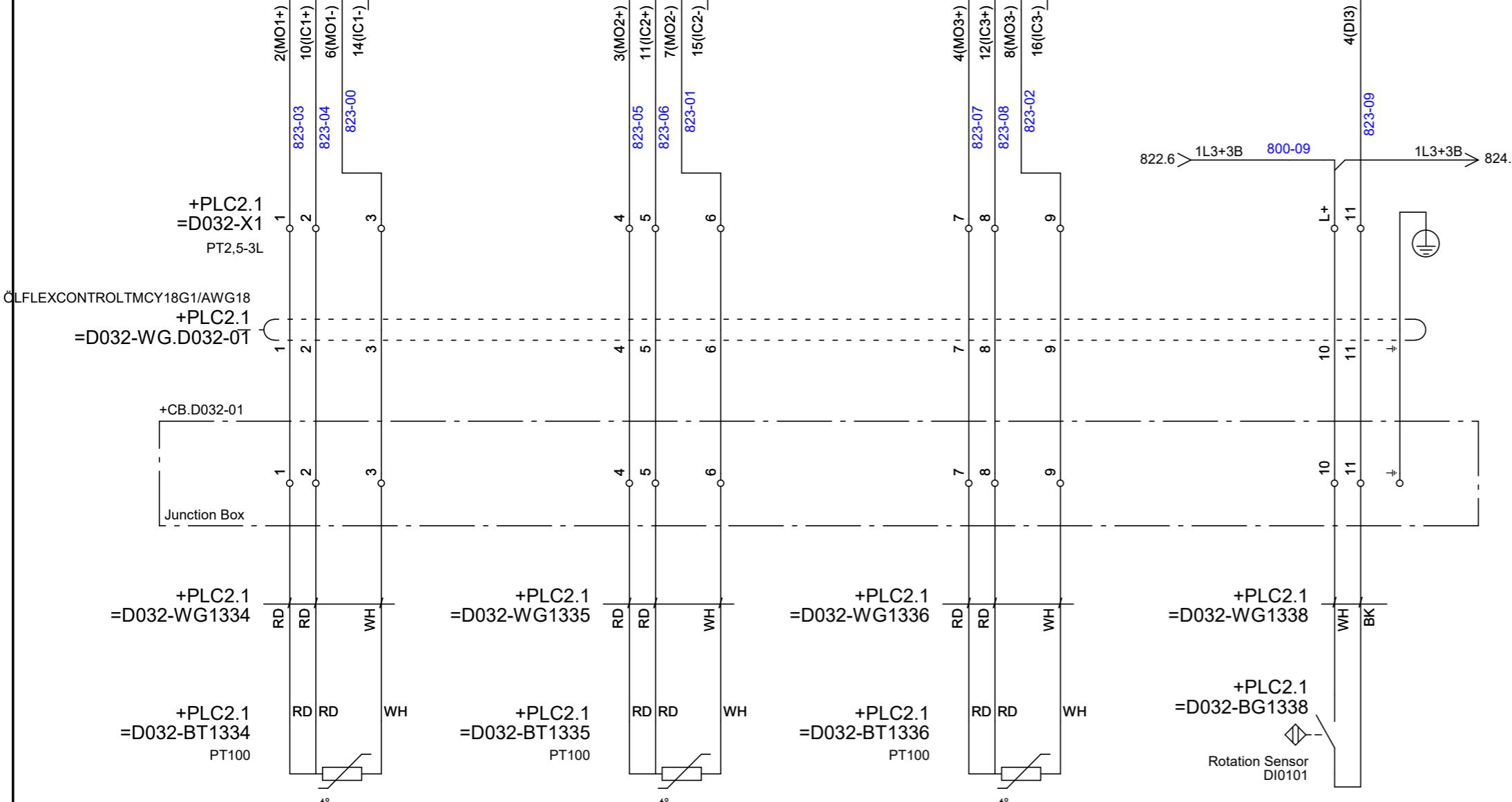
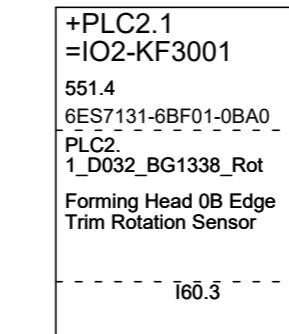
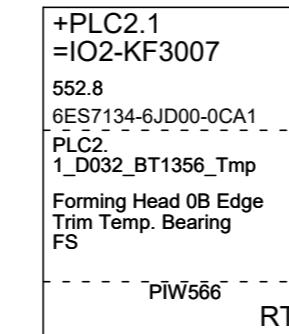
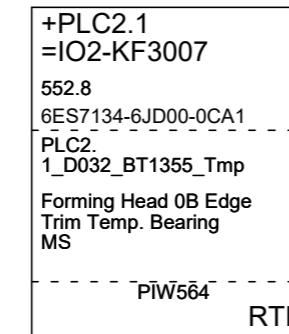
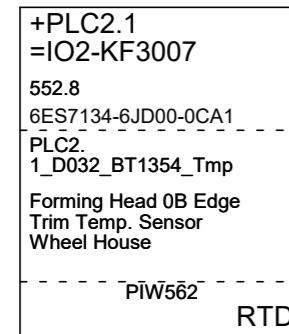


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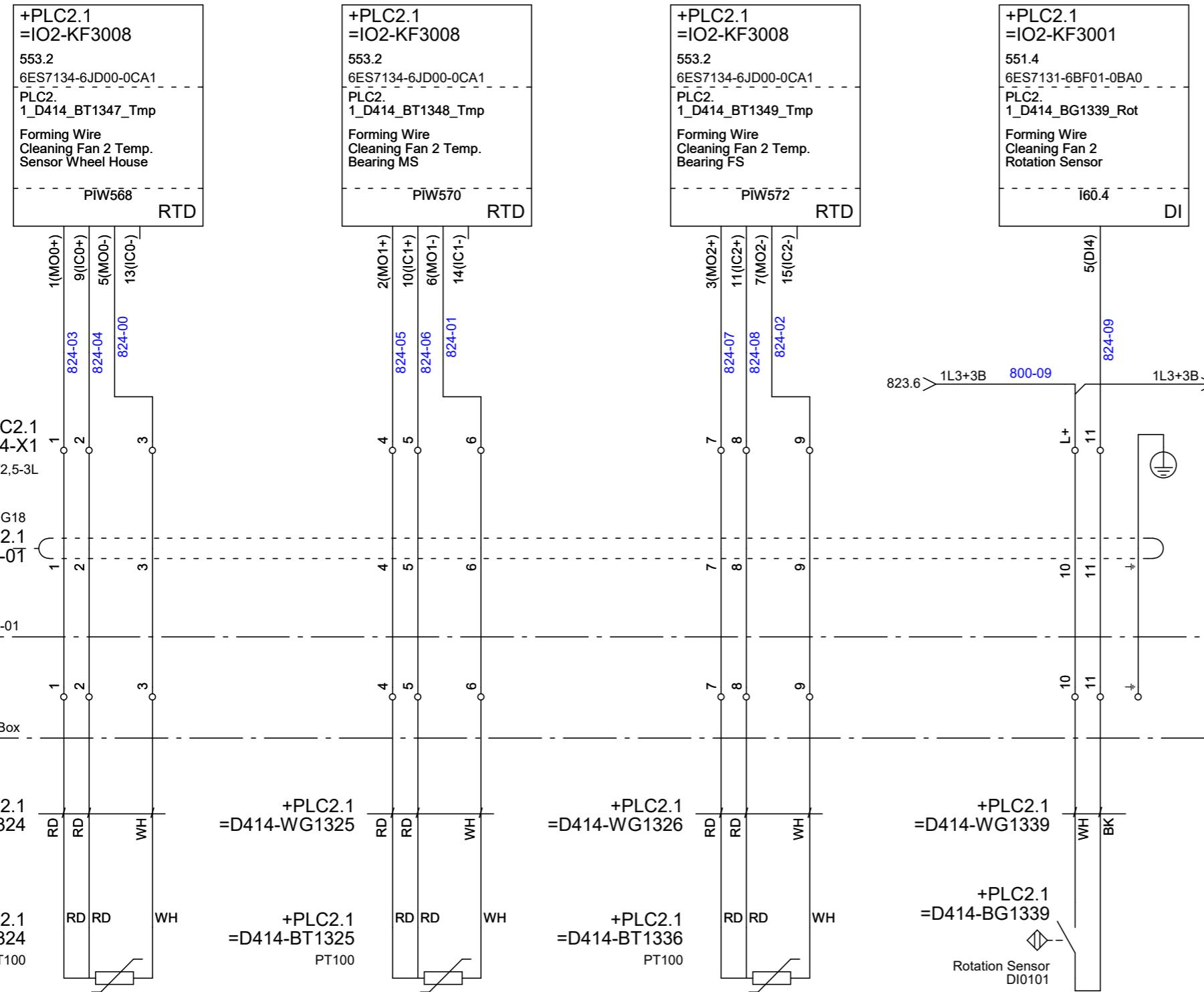
(=) Function aspect
=D031 Forming Head 0A Edge Trim
(+) Location aspect
+PLC2.1 PLC and 24VDC Supply

0 1 2 3 4 5 6 7 8 9



(=) Function aspect
 =D032 Forming Head 0B Edge Trim
 (+) Location aspect
 +PLC2.1 PLC and 24VDC Supply

0 1 2 3 4 5 6 7 8 9



(=) Function aspect
 =D414 Forming Wire Cleaning Fan 2
 (+) Location aspect
 +PLC2.1 PLC and 24VDC Supply



Componentlist

Componentlist

Pos.	Component Page/path	Type Description	Make
1	+PLC2.1=AC01-F1011 =AC01/300.5	5SY6504-7 CIRCUIT BREAKER 230V 6KA,1+N-POLE C, 4A, D=70MM	Siemens
2	+PLC2.1=AC01-FC2010 =AC01/300.1	3RV2711-1ED10 CIRCUIT-BREAKER SZ S00, FOR PLANT PROTEC A-RELEASE 4 A, N-RELEASE 52 A	Siemens
3	+PLC2.1=AC01-FC2010 =AC01/300.1	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	Siemens
4	+PLC2.1=AC01-FC2010 =AC01/300.1	9340340 OM adaptors with connection cables, 25A, 690V	Rittal
5	+PLC2.1=AC01-FC2011 =DC05/806.4	3RV2901-1E TRANSVERSE AUX. SWITCH, 1NO+1NC, CIRCUIT-BREAKERS, SZ S00/S0	Siemens
6	+PLC2.1=AC01-FC2011 =DC05/806.4	3RV2711-1KD10 CIRCUIT-BREAKER SZ S00, FOR PLANT PROTEC A-RELEASE 12.5 A, N-RELEASE 163 A	Siemens
7	+PLC2.1=AC01-TA2010 =AC01/300.1	4AM5742-8DD40-0FA0 TRANSFORMER SITAS; PHASES:1; PN/PN(S6)(kVA):1 /5;	Siemens
8	+PLC2.1=AC01-X106 (3) =DC05/806.4	PTTB4 2 level terminal spring	Phoenix Contact
9	+PLC2.1=AUX01-EA2001 =DC01/801.4	TIC14415 LED Luminaire 24VDC w. movement sensor, 3M. cable 1 pcs pr panel up to 1200mm	TIC
10	+PLC2.1=AUX01-FC1002 =PLC2/500.1	5SY6106-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 6A, D=70MM	Siemens
11	+PLC2.1=AUX01-FC1010 =AUX01/301.1	5SY6106-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 6A, D=70MM	Siemens
12	+PLC2.1=AUX01-FC1010 =AUX01/301.1	5ST3010 AUXILIARY SWITCH MOUNT. 1S+1OE, F. LS-SWITCH T=70MM	Siemens
13	+PLC2.1=AUX01-MA1011 =AUX01/301.1	3140110 Fan 725m³/h 115VAC	Rittal
14	+PLC2.1=AUX01-QA1010 =AUX01/301.3	3RT2916-1EH00 Surge Arrestor 400VAC	Siemens
15	+PLC2.1=AUX01-QA1010 =AUX01/301.3	3RT2015-1BB41 CONTACTOR AC-3 3KW/400V 1NO DC24V 3P SZ S00 SCREW TERMINAL	Siemens
16	+PLC2.1=AUX01-X51 (2) =AUX01/301.1	PT2,5 Terminal spring	Phoenix Contact
17	+PLC2.1=AUX01-X51 =AUX01/301.1	PT2,5-PE Ground terminal spring	Phoenix Contact
18	+PLC2.1=AUX01-X1011 =AC01/300.6	5TE6804 SCHUKO SOCKET 16A ACC. TO IEC 60083, UL VERSION TYPE NEMA,F.INST.IN DIST-BOARDS	Siemens
19	+PLC2.1=D021-X1 (6) =D021/821.6	PT2,5-3L Three level terminal spring	Phoenix Contact
20	+PLC2.1=D031-X1 (6) =D031/822.6	PT2,5-3L Three level terminal spring	Phoenix Contact
21	+PLC2.1=D032-X1 (6) =D032/823.6	PT2,5-3L Three level terminal spring	Phoenix Contact
22	+PLC2.1=D414-X1 (6) =D414/824.6	PT2,5-3L Three level terminal spring	Phoenix Contact
23	+PLC2.1=DC01-3LDC =DC01/801.1	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
24	+PLC2.1=DC01-5LDC =DC01/801.2	5SY6106-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 6A, D=70MM	Siemens
25	+PLC2.1=DC01-FC1001 =DC01/800.1	3RV2011-1DA10 CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-RELE	Siemens



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Componentlist

Pos.	Component Page/path	Type Description	Make
26	+PLC2.1=DC01-FC1001.1 =DC01/800.5	6EP1961-2BA21 SITOP PSE200U 10A SELECTIVITY MODULE 4CH. 24VDC ADJ.3-10A	Siemens
27	+PLC2.1=DC01-TA1001 =DC01/800.1	6EP3436-8SB00-0AY0 SITOP PSU 20 A STAB.POW.SUPPLY IN:3x400-500VAC OUT:24VDC/20 A	Siemens
28	+PLC2.1=DC01-X1 (9) =DC01/801.9	PTTB4 2 level terminal spring	Phoenix Contact
29	+PLC2.1=DC01-X1 (2) =DC01/801.4	PT2,5 Terminal spring	Phoenix Contact
30	+PLC2.1=DC01-X5 =DC01/801.2	PTTB4 2 level terminal spring	Phoenix Contact
31	+PLC2.1=DC01-X100 (8) =DC01/800.4	PT2,5 Terminal spring	Phoenix Contact
32	+PLC2.1=DC01-X101 (4) =DC01/800.7	PT2,5 Terminal spring	Phoenix Contact
33	+PLC2.1=DC02-1LDC1 =DC02/810.1	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
34	+PLC2.1=DC02-2LDC1 =DC02/810.3	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
35	+PLC2.1=DC02-3LDC1 =DC02/810.5	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
36	+PLC2.1=DC02-FC1002 =DC02/805.1	3RV2011-1DA10 CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-RELE	Siemens
37	+PLC2.1=DC02-TA1002 =DC02/805.1	6EP3436-8SB00-0AY0 SITOP PSU 20 A STAB.POW.SUPPLY IN:3x400-500VAC OUT:24VDC/20 A	Siemens
38	+PLC2.1=DC02-X102 (5) =DC02/810.5	PTTB4 2 level terminal spring	Phoenix Contact
39	+PLC2.1=DC03-1LDC1 =DC03/811.1	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
40	+PLC2.1=DC03-2LDC1 =DC03/811.3	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
41	+PLC2.1=DC03-FC1003 =DC02/805.4	3RV2011-1DA10 CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-RELE	Siemens
42	+PLC2.1=DC03-TA1003 =DC02/805.4	6EP3436-8SB00-0AY0 SITOP PSU 20 A STAB.POW.SUPPLY IN:3x400-500VAC OUT:24VDC/20 A	Siemens
43	+PLC2.1=DC03-X103 (4) =DC03/811.3	PTTB4 2 level terminal spring	Phoenix Contact
44	+PLC2.1=DC04-1LDC1 =DC04/813.1	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
45	+PLC2.1=DC04-2LDC1 =DC04/813.3	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
46	+PLC2.1=DC04-3LDC1 =DC04/813.5	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
47	+PLC2.1=DC04-FC1004 =DC02/805.7	3RV2011-1DA10 CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-RELE	Siemens
48	+PLC2.1=DC04-TA1004 =DC02/805.7	6EP3436-8SB00-0AY0 SITOP PSU 20 A STAB.POW.SUPPLY IN:3x400-500VAC OUT:24VDC/20 A	Siemens
49	+PLC2.1=DC04-X104 (5) =DC04/813.5	PTTB4 2 level terminal spring	Phoenix Contact
50	+PLC2.1=DC05-1LDC1 =DC05/814.1	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens



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Componentlist

Pos.	Component Page/path	Type Description	Make
51	+PLC2.1=DC05-2LDC1 =DC05/814.4	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
52	+PLC2.1=DC05-FC1005 =DC05/806.1	3RV2011-1DA10 CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-NRELE	Siemens
53	+PLC2.1=DC05-TA1005 =DC05/806.1	6EP3436-8SB00-0AY0 SITOP PSU 20 A STAB.POW.SUPPLY IN:3x400-500VAC OUT:24VDC/20 A	Siemens
54	+PLC2.1=DC05-X105 (3) =DC05/814.4	PTTB4 2 level terminal spring	Phoenix Contact
55	+PLC2.1=DC07-1LDC1 =DC07/816.1	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
56	+PLC2.1=DC07-2LDC1 =DC07/816.3	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
57	+PLC2.1=DC07-3LDC1 =DC07/816.5	5SY6110-7 CIRCUIT BREAKER 230/400V 6KA, 1-POLE, C, 10A, D=70MM	Siemens
58	+PLC2.1=DC07-FC1007 =DC05/806.7	3RV2011-1DA10 CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-NRELE	Siemens
59	+PLC2.1=DC07-TA1007 =DC05/806.7	6EP3436-8SB00-0AY0 SITOP PSU 20 A STAB.POW.SUPPLY IN:3x400-500VAC OUT:24VDC/20 A	Siemens
60	+PLC2.1=DC07-X107 (4) =DC07/816.5	PTTB4 2 level terminal spring	Phoenix Contact
61	+PLC2.1=F081-X1 (6) =F081/820.6	PT2,5-3L Three level terminal spring	Phoenix Contact
62	+PLC2.1=IO2-KF1000 =IO/551.1	6ES7155-6AA01-0BN0 SIMATIC ET 200SP, PROFINET INTERFACE MODULE IM155-6PN STANDARD	Siemens
63	+PLC2.1=IO2-KF3001 =AC01/300.2	6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN TERM, NEW LOAD	Siemens
64	+PLC2.1=IO2-KF3001 =AC01/300.2	6ES7131-6BF01-0BA0 SIMATIC ET 200SP, INPUT DI 8X 24VDC STANDARD	Siemens
65	+PLC2.1=IO2-KF3002 =AUX01/301.4	6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN TERM, BRIDGED TO	Siemens
66	+PLC2.1=IO2-KF3002 =AUX01/301.4	6ES7131-6BF01-0BA0 SIMATIC ET 200SP, INPUT DI 8X 24VDC STANDARD	Siemens
67	+PLC2.1=IO2-KF3003 =IO/551.7	6ES7131-6BF01-0BA0 SIMATIC ET 200SP, INPUT DI 8X 24VDC STANDARD	Siemens
68	+PLC2.1=IO2-KF3003 =IO/551.7	6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN TERM, BRIDGED TO	Siemens
69	+PLC2.1=IO2-KF3004 =AUX01/301.2	6ES7132-6BF01-0BA0 SIMATIC ET 200SP, OUTPUT DQ 8X24VDC/0,5A STANDARD	Siemens
70	+PLC2.1=IO2-KF3004 =AUX01/301.2	6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN TERM, BRIDGED TO	Siemens
71	+PLC2.1=IO2-KF3005 =IO/552.3	6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN TERM, NEW LOAD	Siemens
72	+PLC2.1=IO2-KF3005 =IO/552.3	6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN TERM, BRIDGED TO	Siemens
73	+PLC2.1=IO2-KF3005 =IO/552.3	6ES7134-6JD00-0CA1 SIMATIC ET 200SP, AI 4XRTD/TC HIGH FEATURE, FITS TO BU-TYPE A0, A1, COLOR CODE C	Siemens
74	+PLC2.1=IO2-KF3006 (2) =IO/552.5	6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN TERM, BRIDGED TO	Siemens
75	+PLC2.1=IO2-KF3006 =IO/552.5	6ES7134-6JD00-0CA1 SIMATIC ET 200SP, AI 4XRTD/TC HIGH FEATURE, FITS TO BU-TYPE A0, A1, COLOR CODE C	Siemens



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Components list

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Componentlist

Pos.	Component Page/path	Type Description	Make
76	+PLC2.1=IO2-KF3006 =IO/552.5	6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN TERM, NEW LOAD	Siemens
77	+PLC2.1=IO2-KF3007 =IO/552.7	6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN TERM, NEW LOAD	Siemens
78	+PLC2.1=IO2-KF3007 =IO/552.7	6ES7134-6JD00-0CA1 SIMATIC ET 200SP, AI 4XRTD/TC HIGH FEATURE, FITS TO BU-TYPE A0, A1, COLOR CODE C	Siemens
79	+PLC2.1=IO2-KF3007 (3) =IO/552.7	6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN TERM, BRIDGED TO	Siemens
80	+PLC2.1=IO2-KF3008 =IO/553.1	6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN TERM, NEW LOAD	Siemens
81	+PLC2.1=IO2-KF3008 =IO/553.1	6ES7134-6JD00-0CA1 SIMATIC ET 200SP, AI 4XRTD/TC HIGH FEATURE, FITS TO BU-TYPE A0, A1, COLOR CODE C	Siemens
82	+PLC2.1=IO2-KF3008 (3) =IO/553.1	6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN TERM, BRIDGED TO	Siemens
83	+PLC2.1=PLC2-KF1000 =PLC2/500.4	6ES7315-2FJ14-0AB0 SIMATIC S7-300 CPU315F-2 PN/DP, 512 KBYTE MEMORY, 1. INTERFACE MPI/DP 12MBIT/S,	Siemens
84	+PLC2.1=PLC2-KF1000 =PLC2/500.4	6ES7390-1AB60-0AA0 SIMATIC S7 300 PROFILSKINNE L=160MM	Siemens
85	+PLC2.1=PLC2-KF2001 =ETH/600.1	6GK5216-0BA00-2AB2 SCALANCE XB216 MANAGEABLE SWITCH 16X 10/100 MBITS/S RJ45 PORTS	Siemens
86	+PLC2.1=PLC2-KF2002 =ETH/601.6	6GK5615-0AA00-2AA2 SIMATIC NET SCALANCE S615 LAN Router	Siemens
87	+PLC2.1=PLC2-QA0100 =PLC2/210.1	3VA9267-0FK21 DOOR MOUNTED ROTARY OPERATOR GREY	Siemens
88	+PLC2.1=PLC2-QA0100 =PLC2/210.1	3VA9103-0JB11 wire connector 3 units accessory for: 3VA2 100/160/250	Siemens
89	+PLC2.1=PLC2-QA0100 =PLC2/210.1	3VA6140-5HL31-0AA0 CIRCUIT BREAKER 3VA6 UL FRAME 40 BREAK.CAP. CL.M ICU=35KA @480V 3P	Siemens
90	+PLC2.1=PLC2-TA1000 =PLC2/500.2	6ES7307-1EA00-0AA0 SIMATIC S7 307 STRØMFORS. 120/230V,DC24V 5A	Siemens
91	+PLC2.1=PLC2-X1 (3) =PLC2/210.1	PT16N Terminal spring	Phoenix Contact
92	+PLC2.1=PLC2-X1 (0,33) =PLC2/210.1	PT16N-PE Ground terminal spring	Phoenix Contact
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Cable plan

