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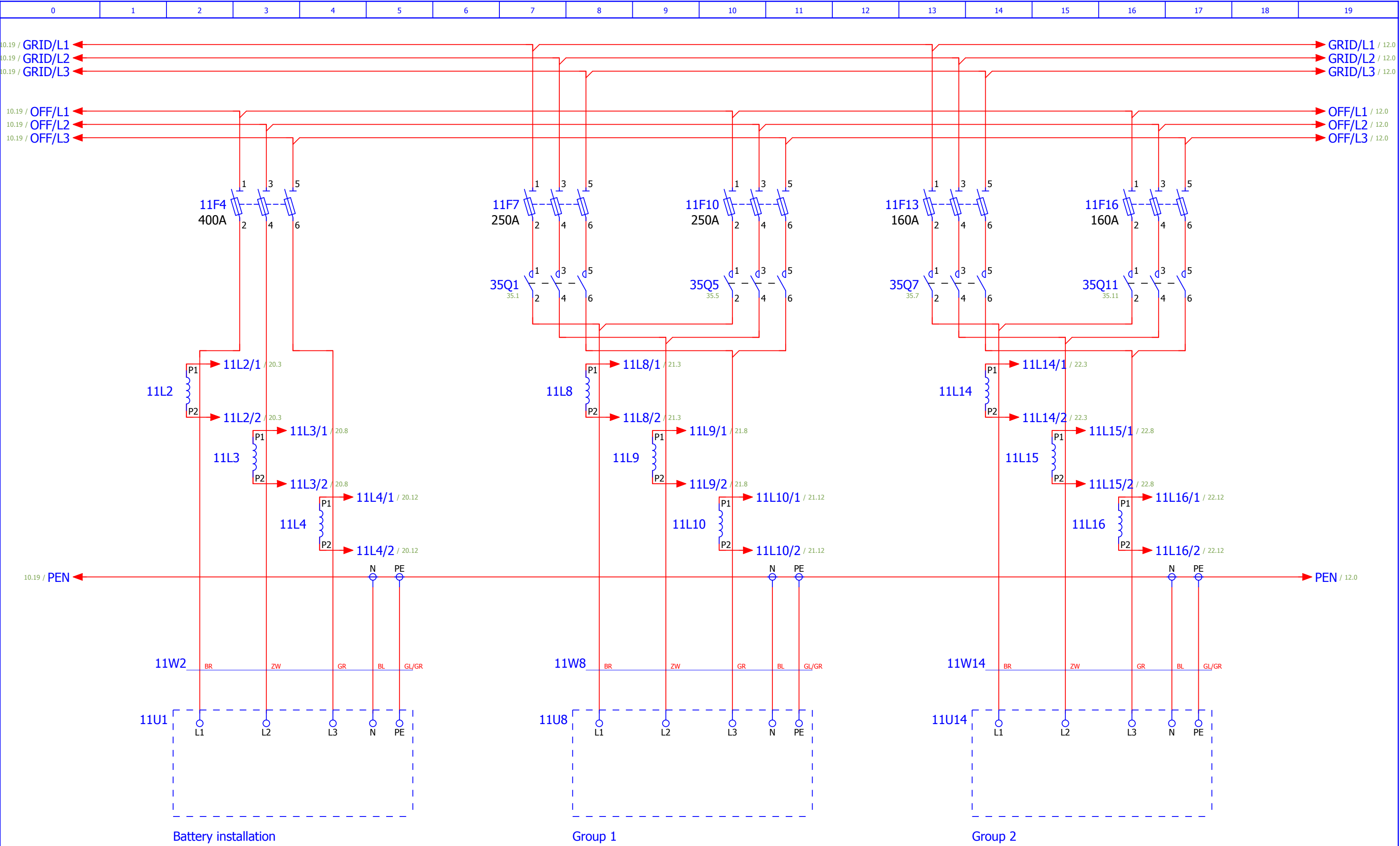
Concept 2

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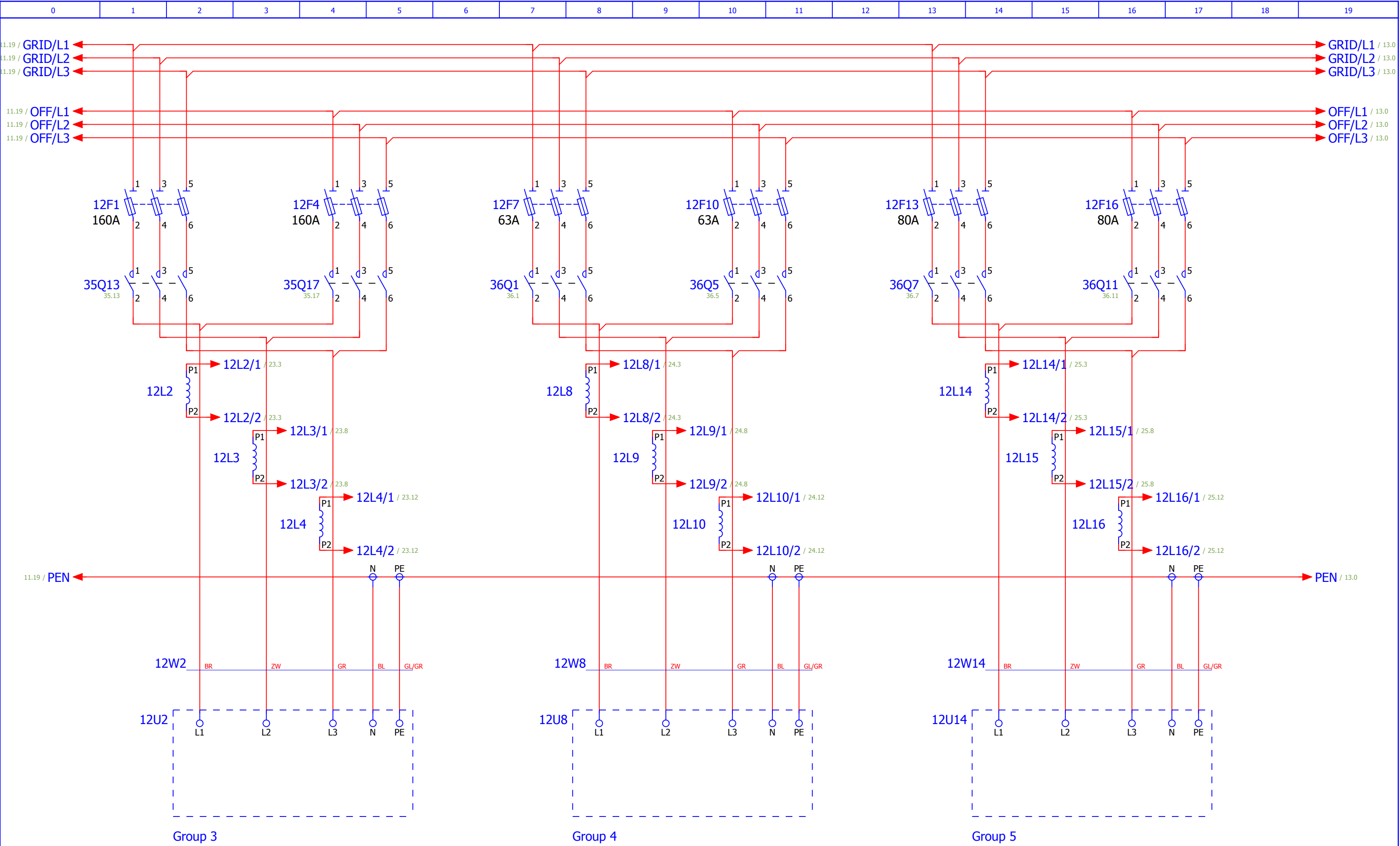
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# Concept 2





# Concept 2



# Concept 2



**KÖNST**  
elektrotechnik

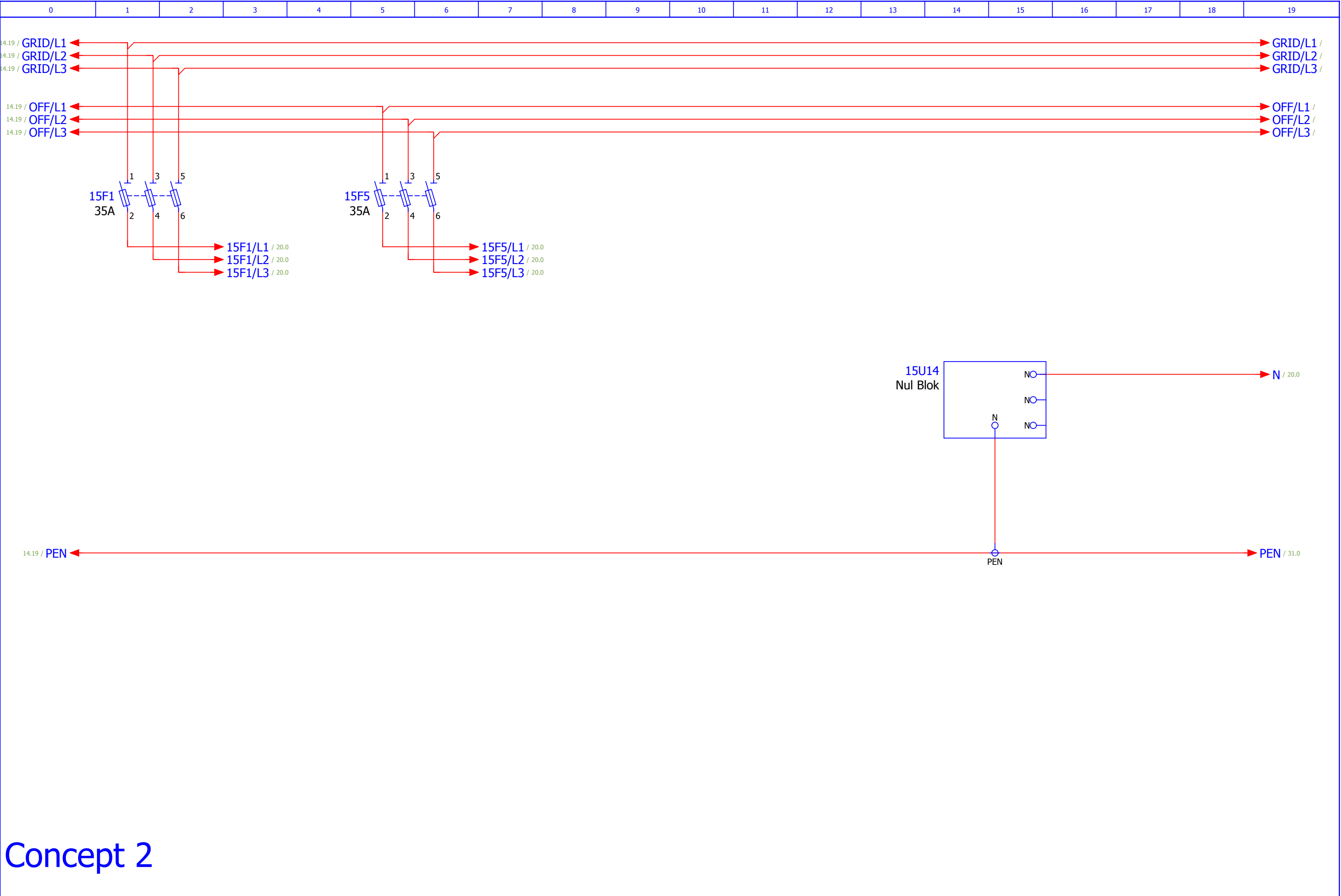
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P: 2461 TV Ter Aar(NL)  
T: +31(0)172539536  
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E: info@konst-elektrotechnik.nl



**KÖNST**  
elektrotechnik

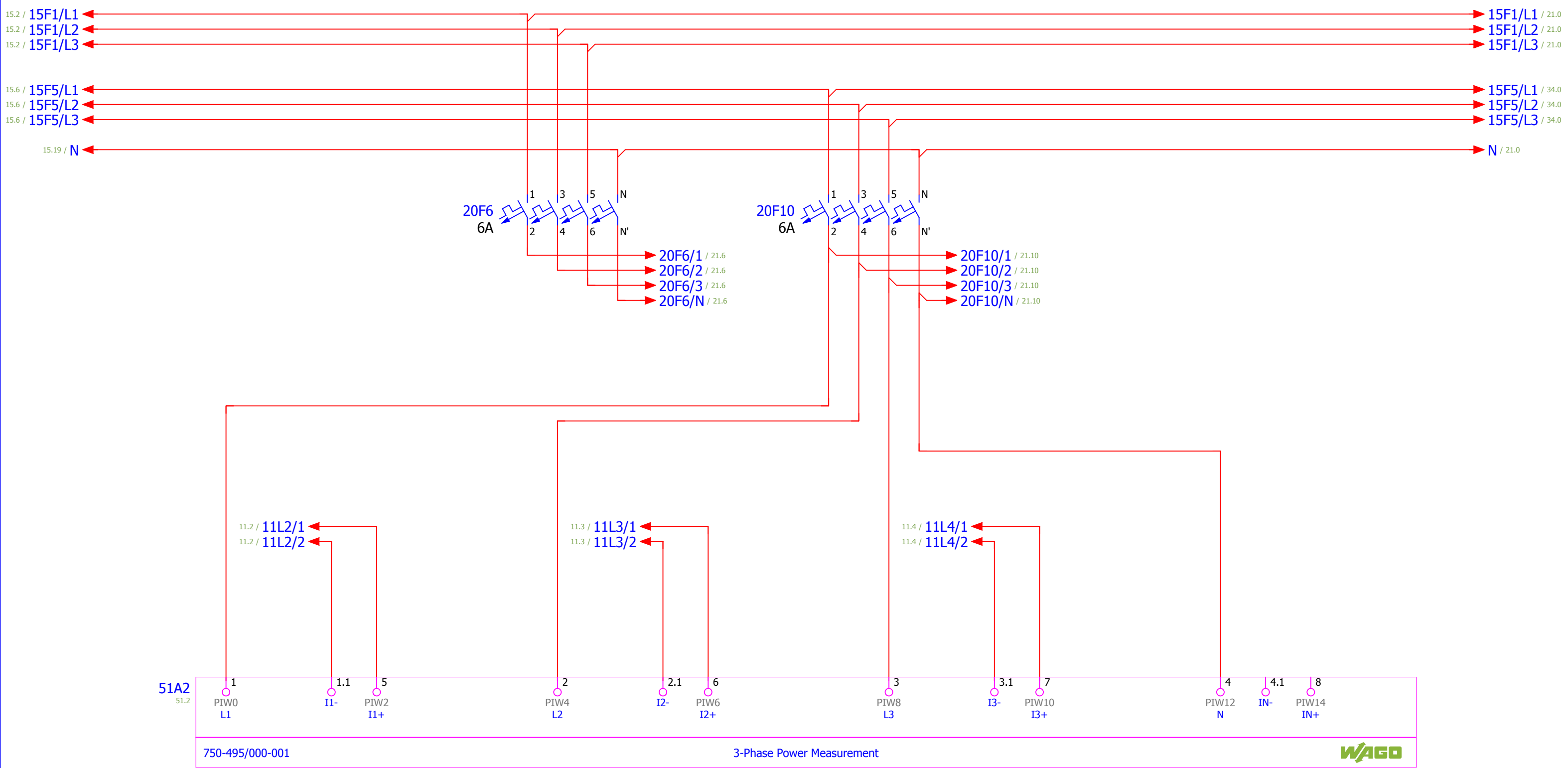
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E: info@konst-elektrotechnik.nl





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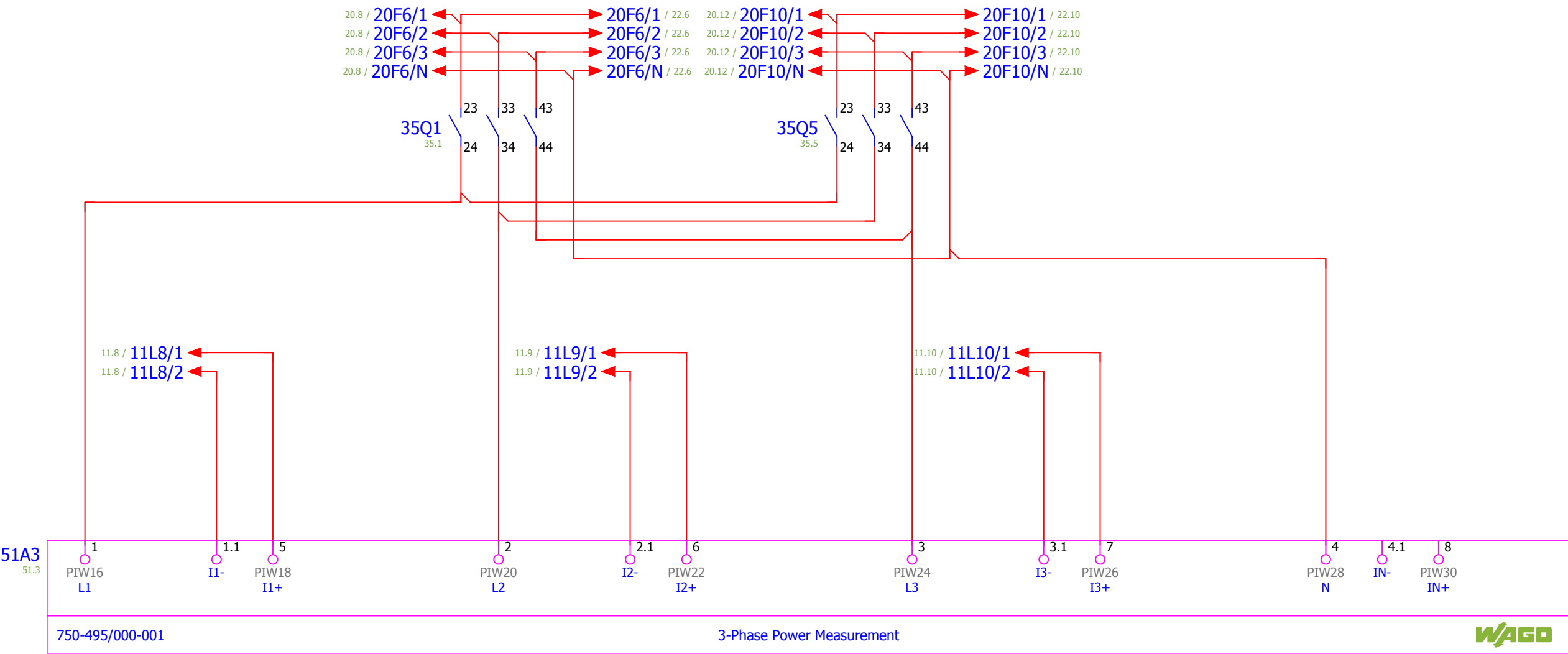
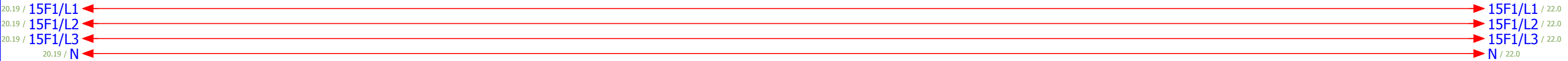


Battery installation

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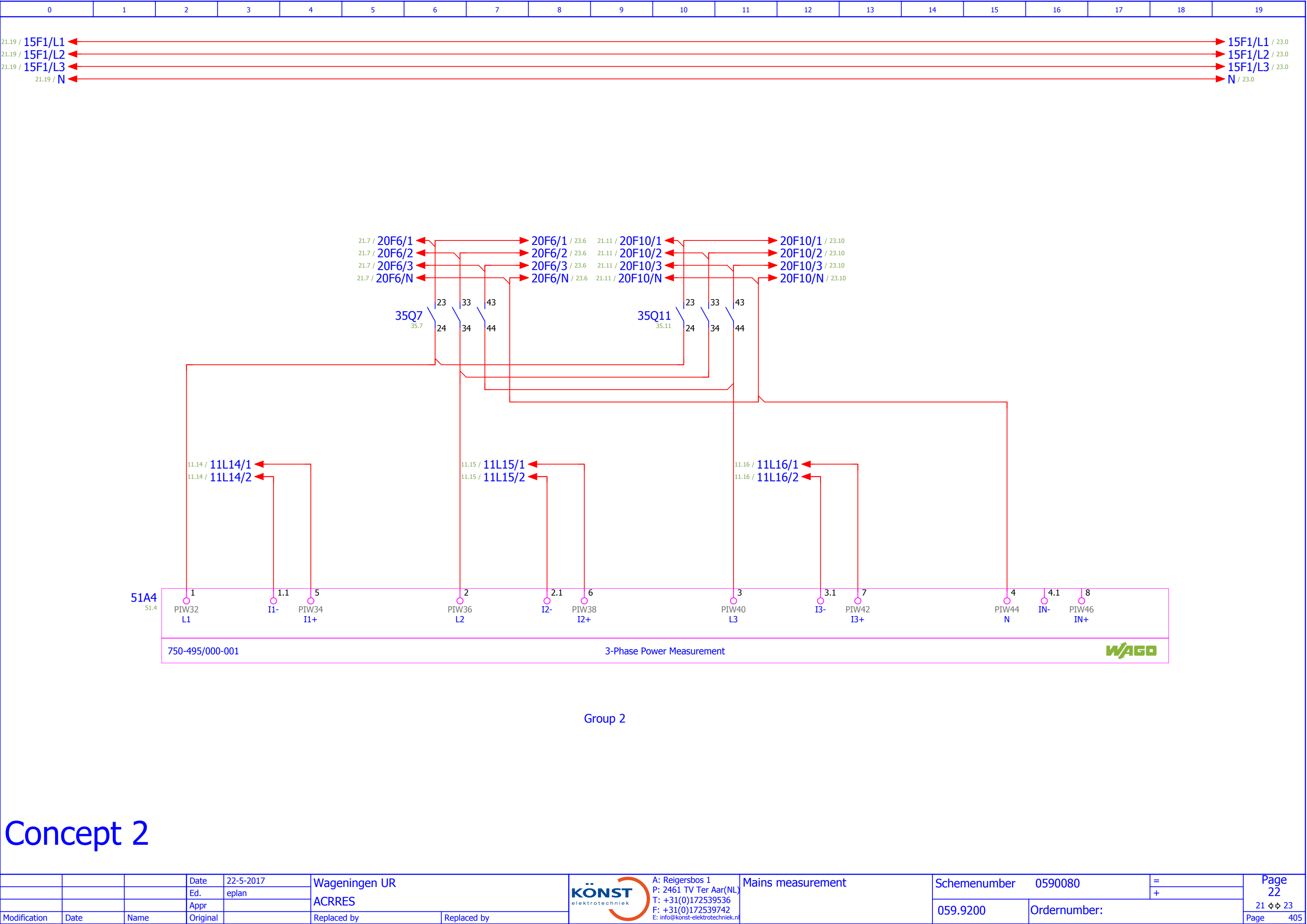
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			Ed.	eplan							+			
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Modification	Date	Name	Original		Replaced by	Replaced by						059.9200	Ordernumber:	

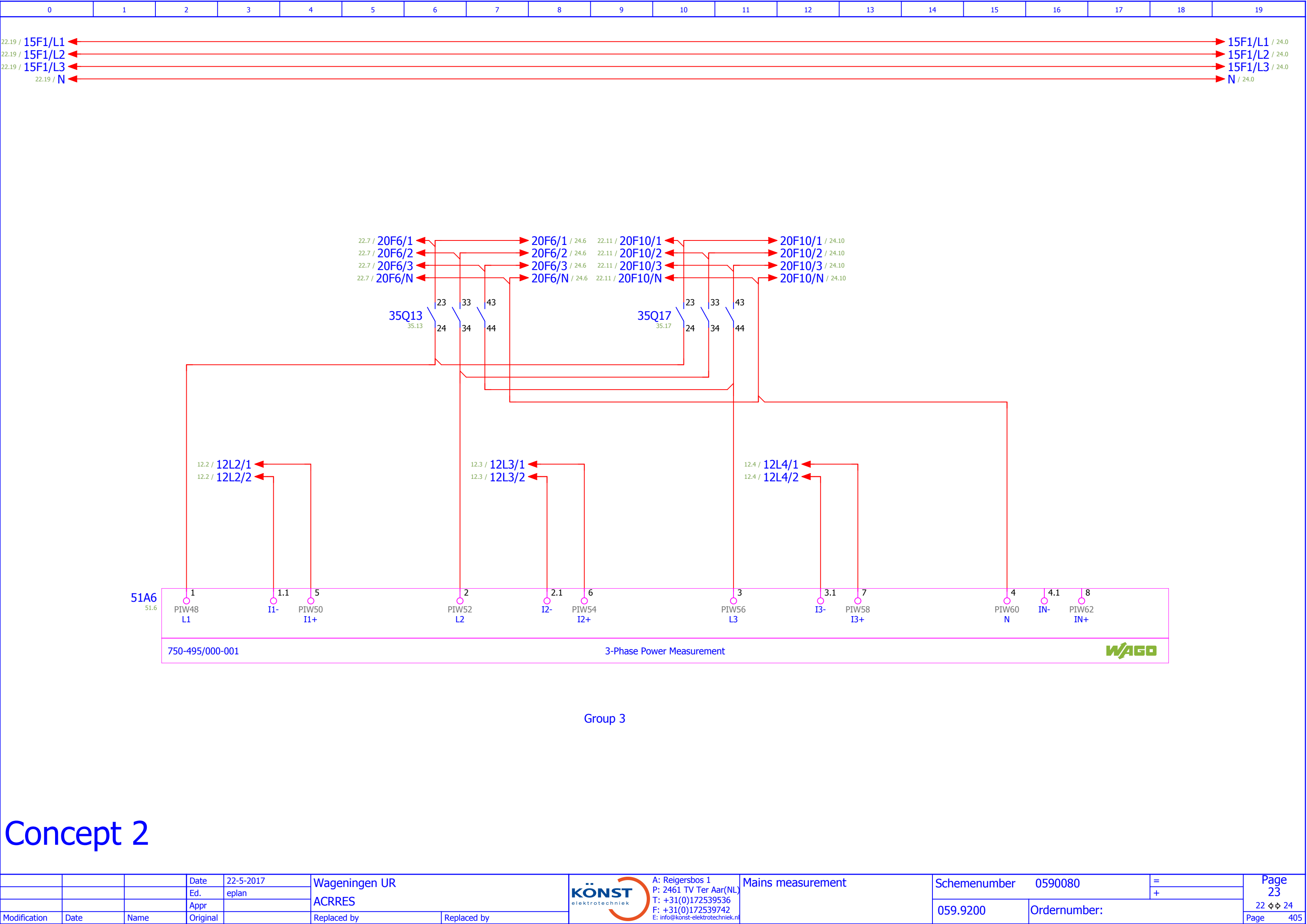
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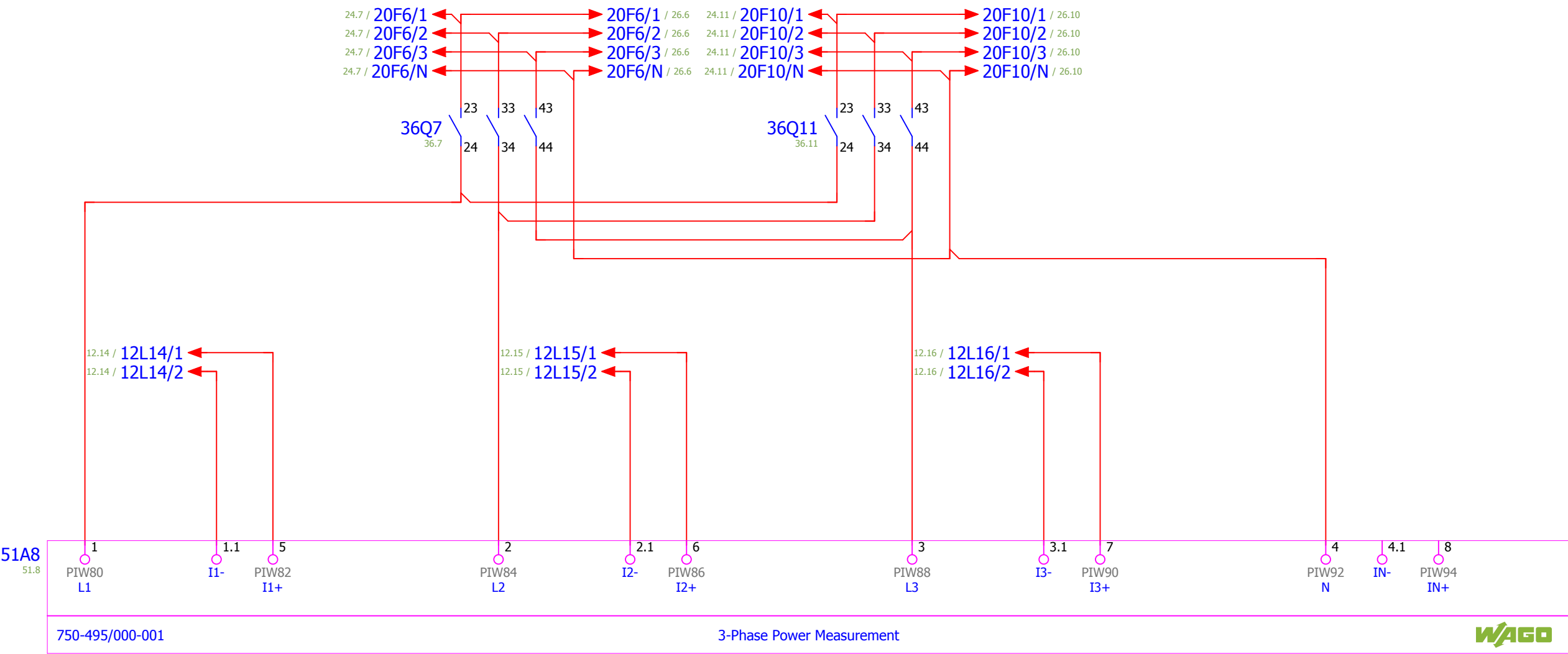
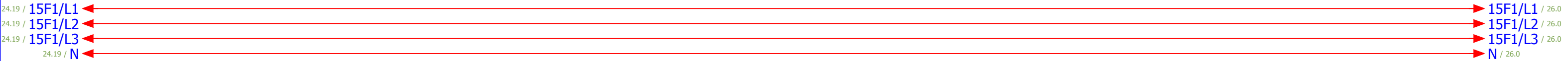
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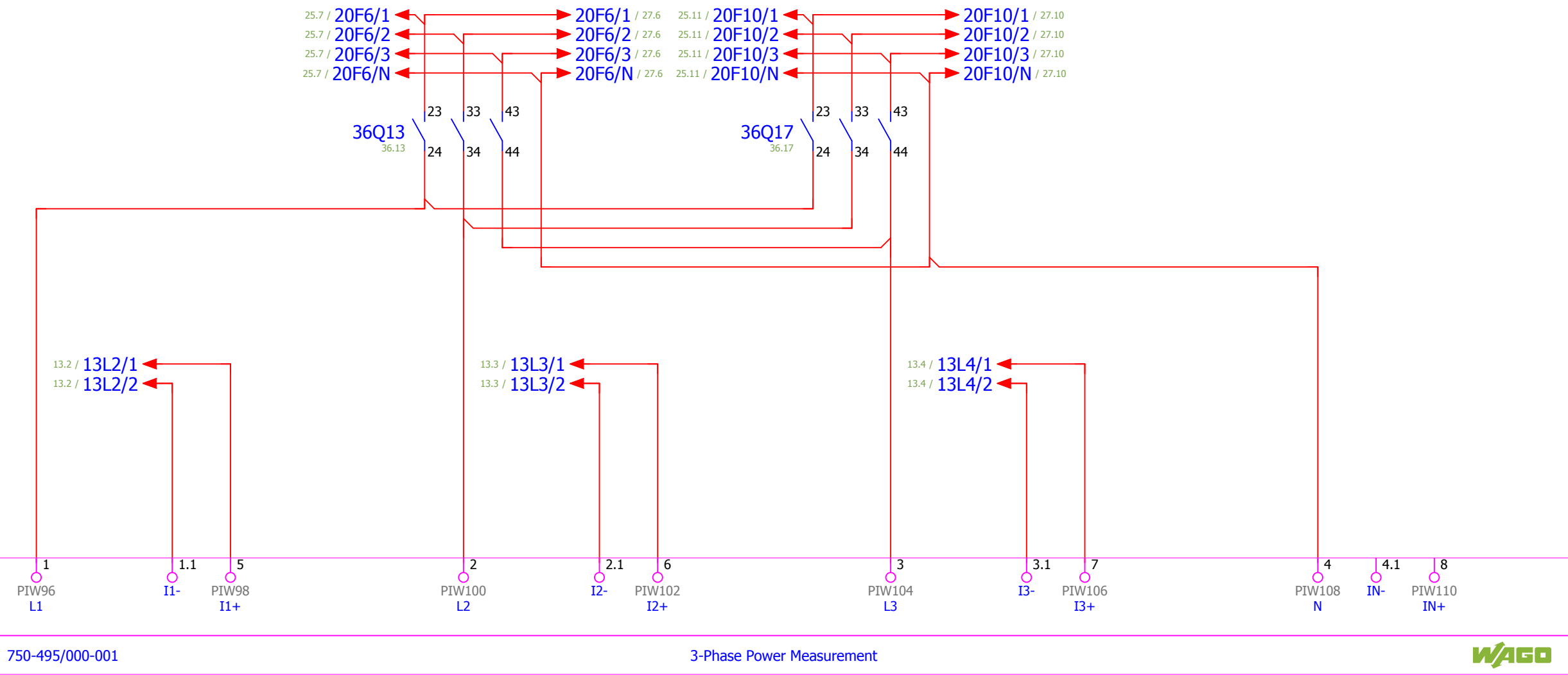
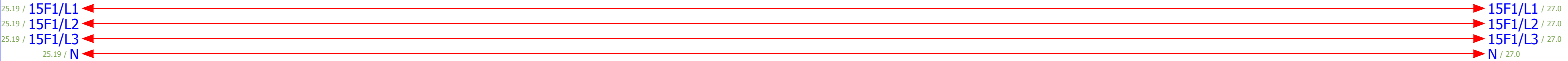
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Group 5

# Concept 2

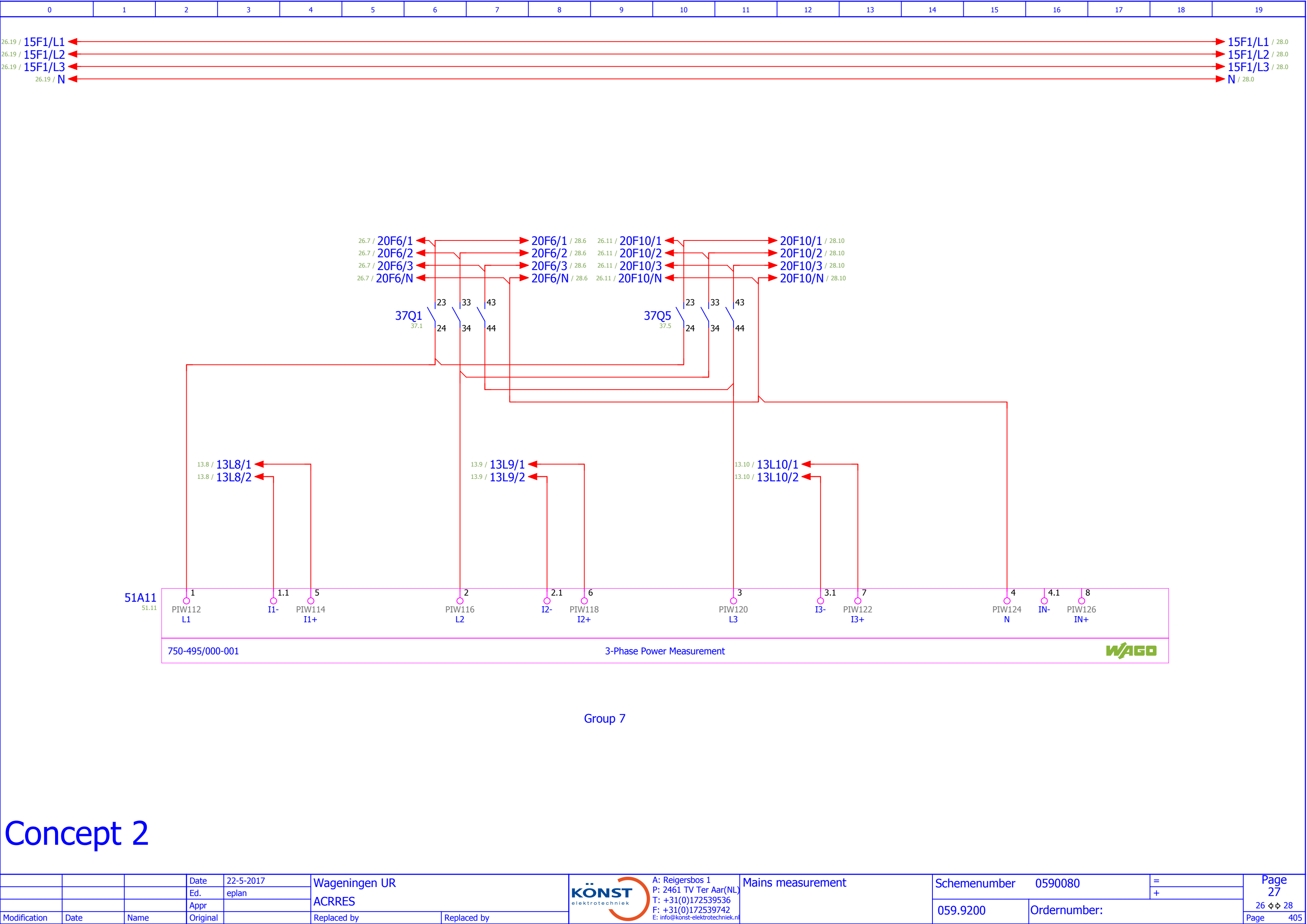
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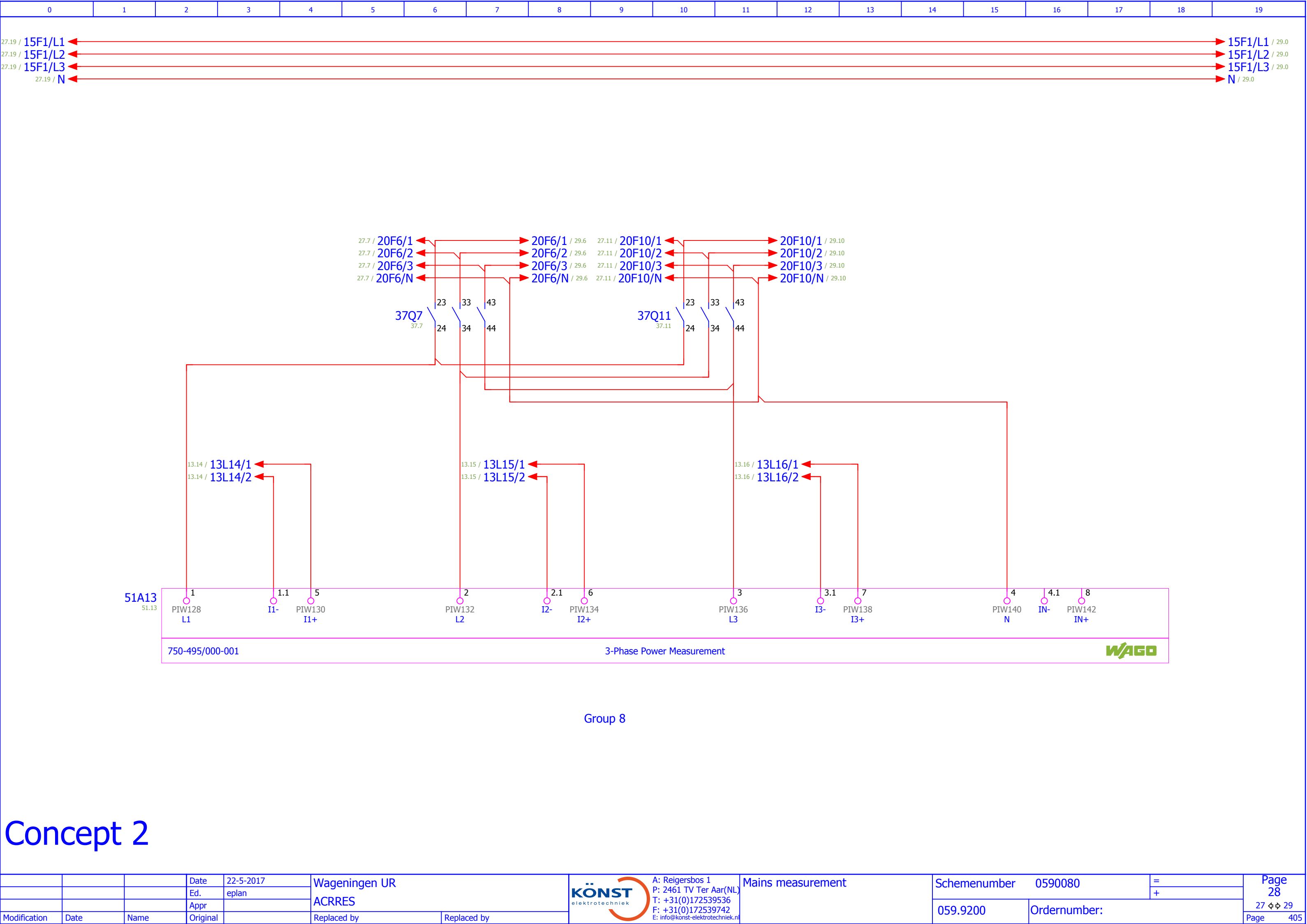


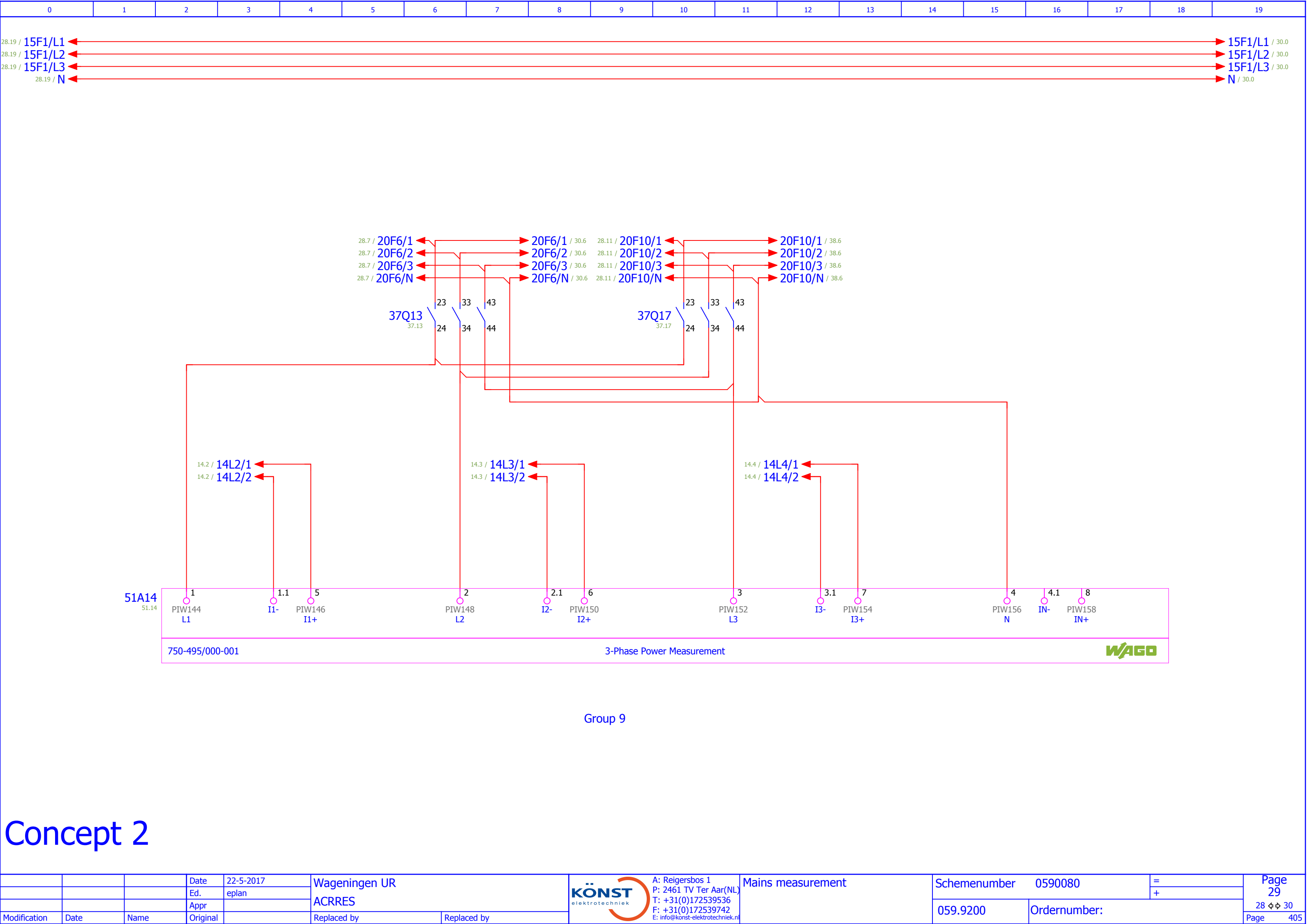
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# Concept 2







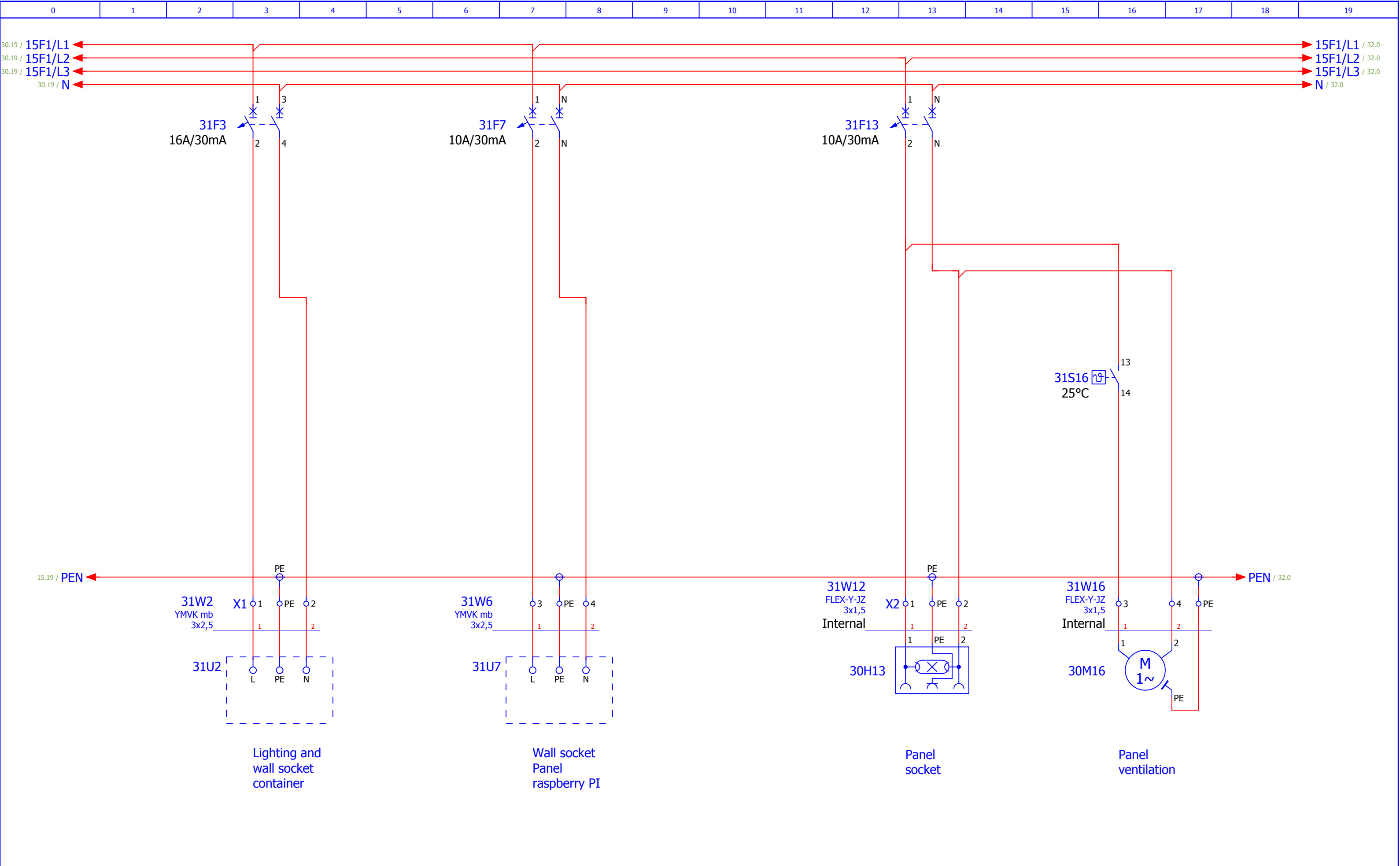


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29.19 / 15F1/L2	15F1/L2 / 31.0
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29.19 / N	N / 31.0



## Concept 2

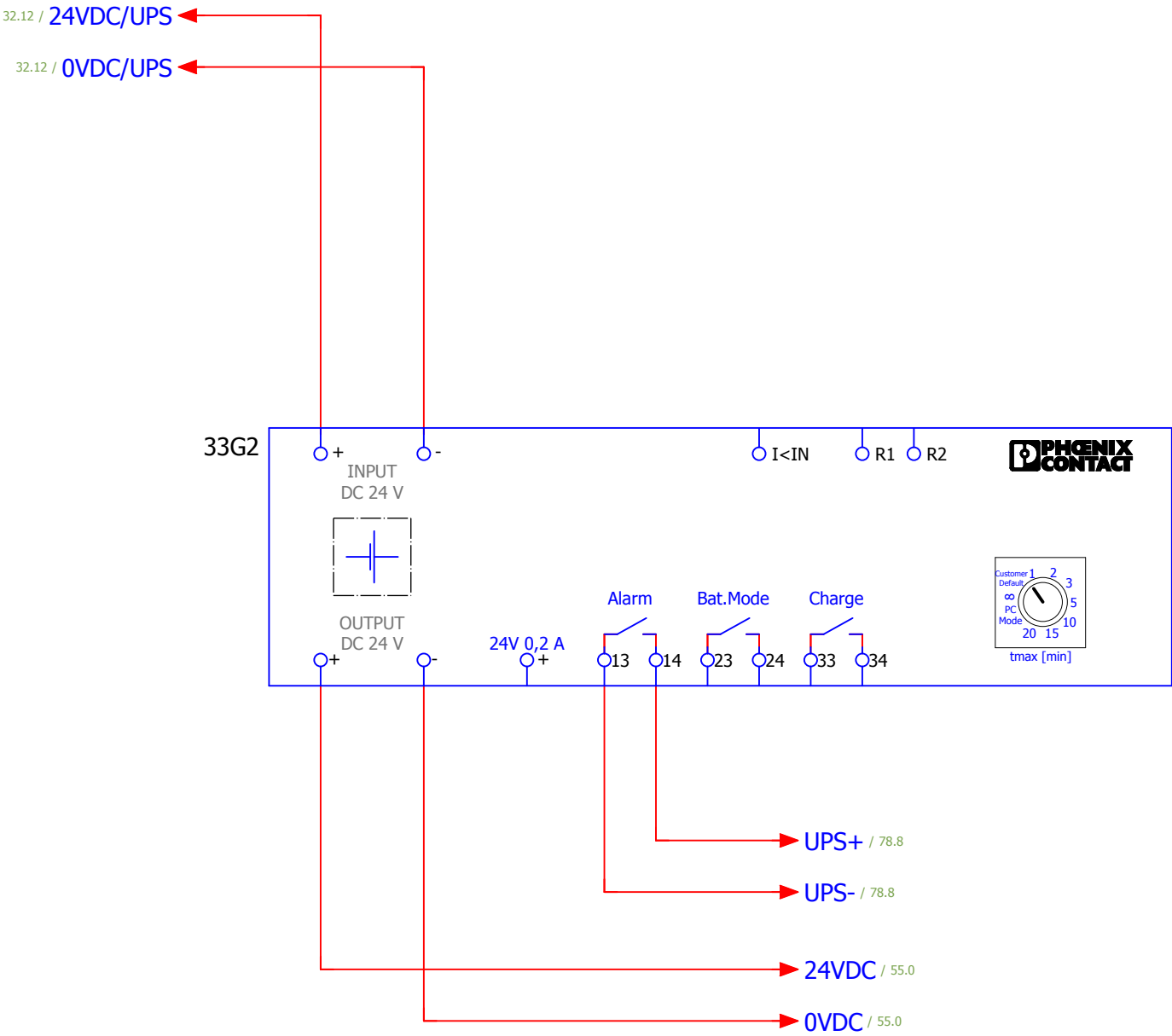
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			Ed.	eplan										+	
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Modification	Date	Name	Original		Replaced by	Replaced by				059.9200	Ordernumber:				



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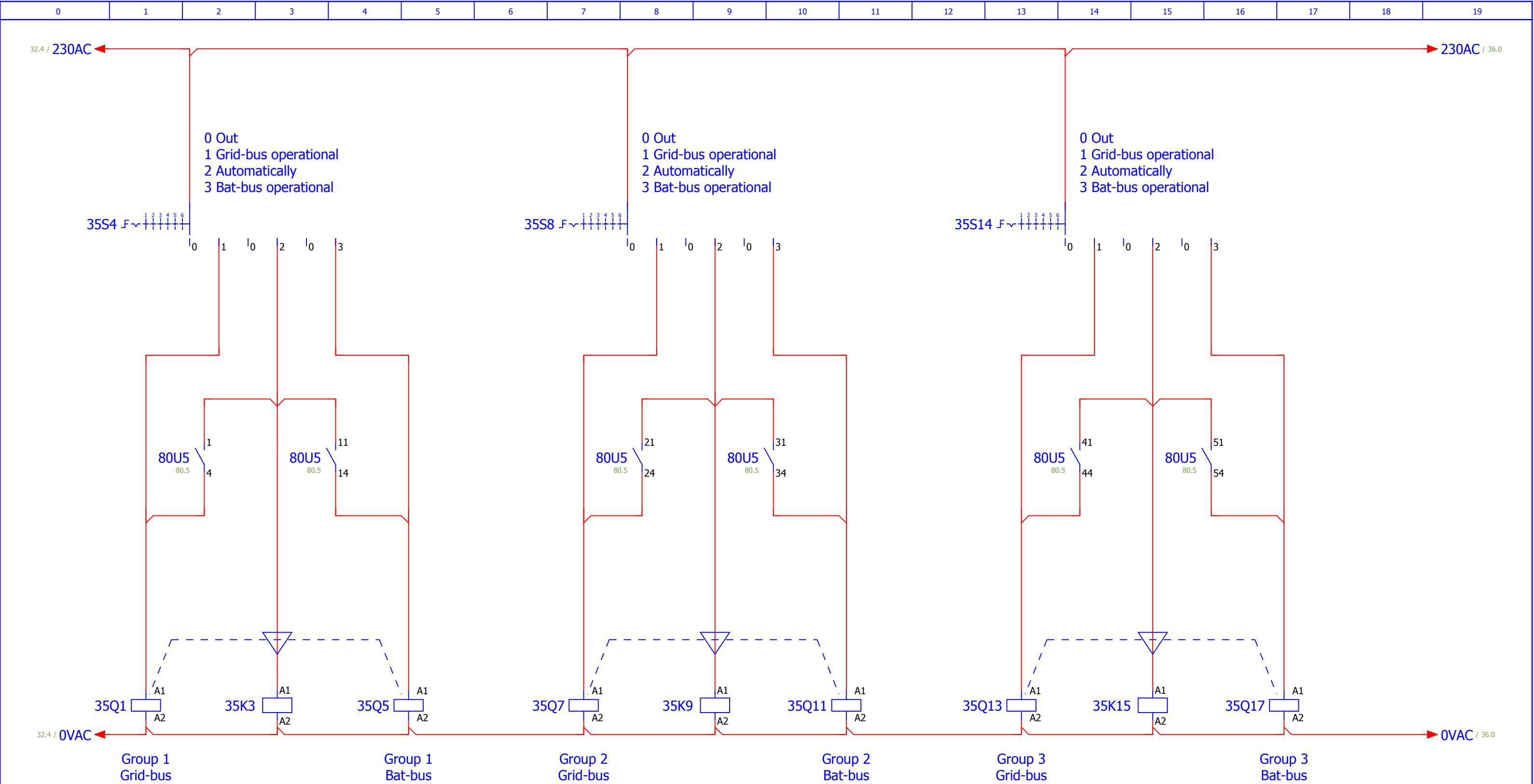
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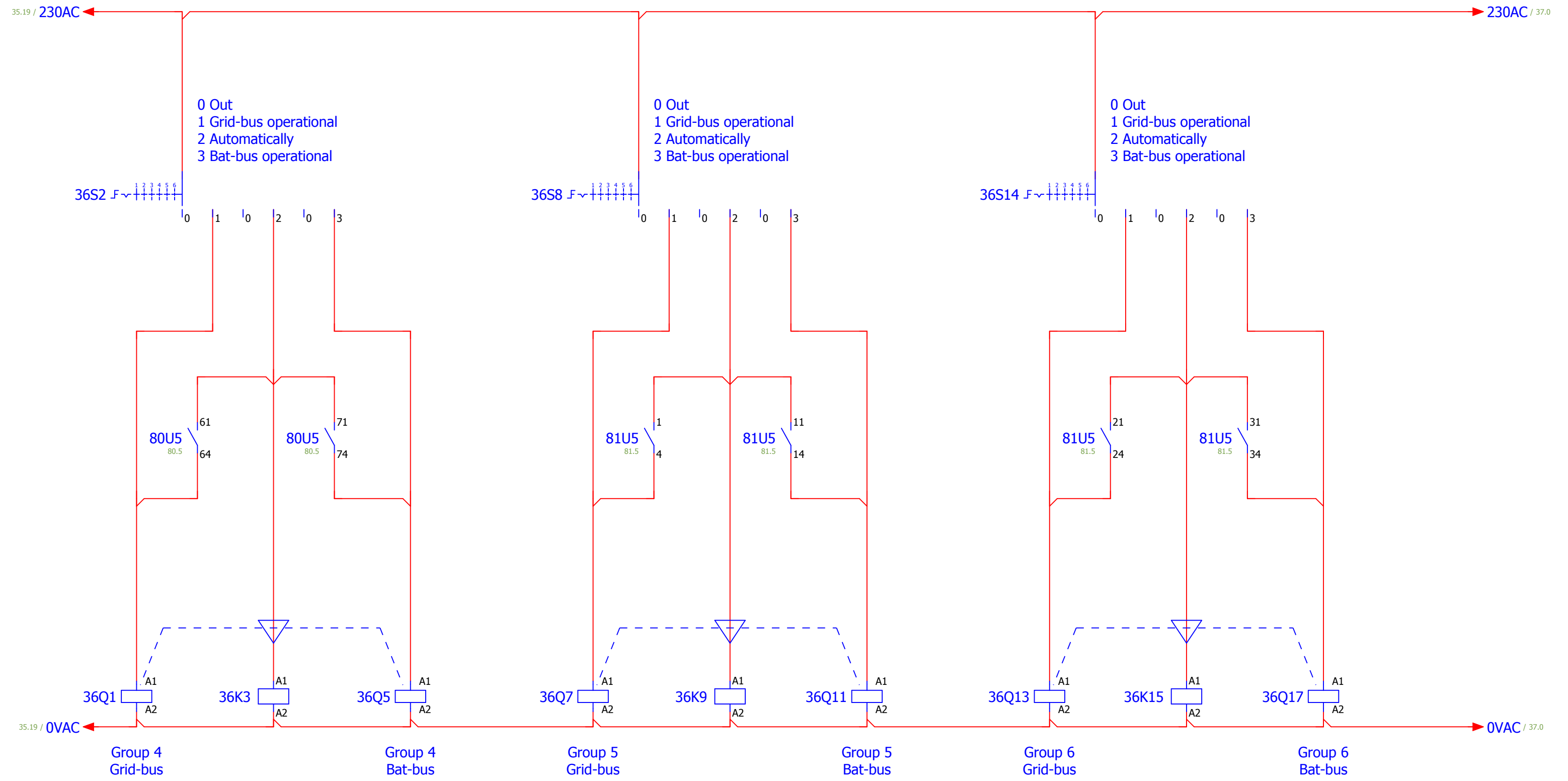


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# Concept 2

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MOE.DILM72(230V50/60HZ)
M   V
12.7
12.7
12.8
75.15
24.6
24.6
24.7

PXC.2903310
M   V
77.13

MOE.DILM72(230V50/60HZ)
M   V
12.10
12.10
12.11
76.2
25.6
24.10
25.6
24.11

MOE.DILM72(230V50/60HZ)
M   V
12.13
12.13
12.14
76.2
25.6
25.10
25.6
25.7

PXC.2903310
M   V
77.15

MOE.DILM72(230V50/60HZ)
M   V
12.16
12.16
13.1
12.17
76.4
25.10
25.10
25.11

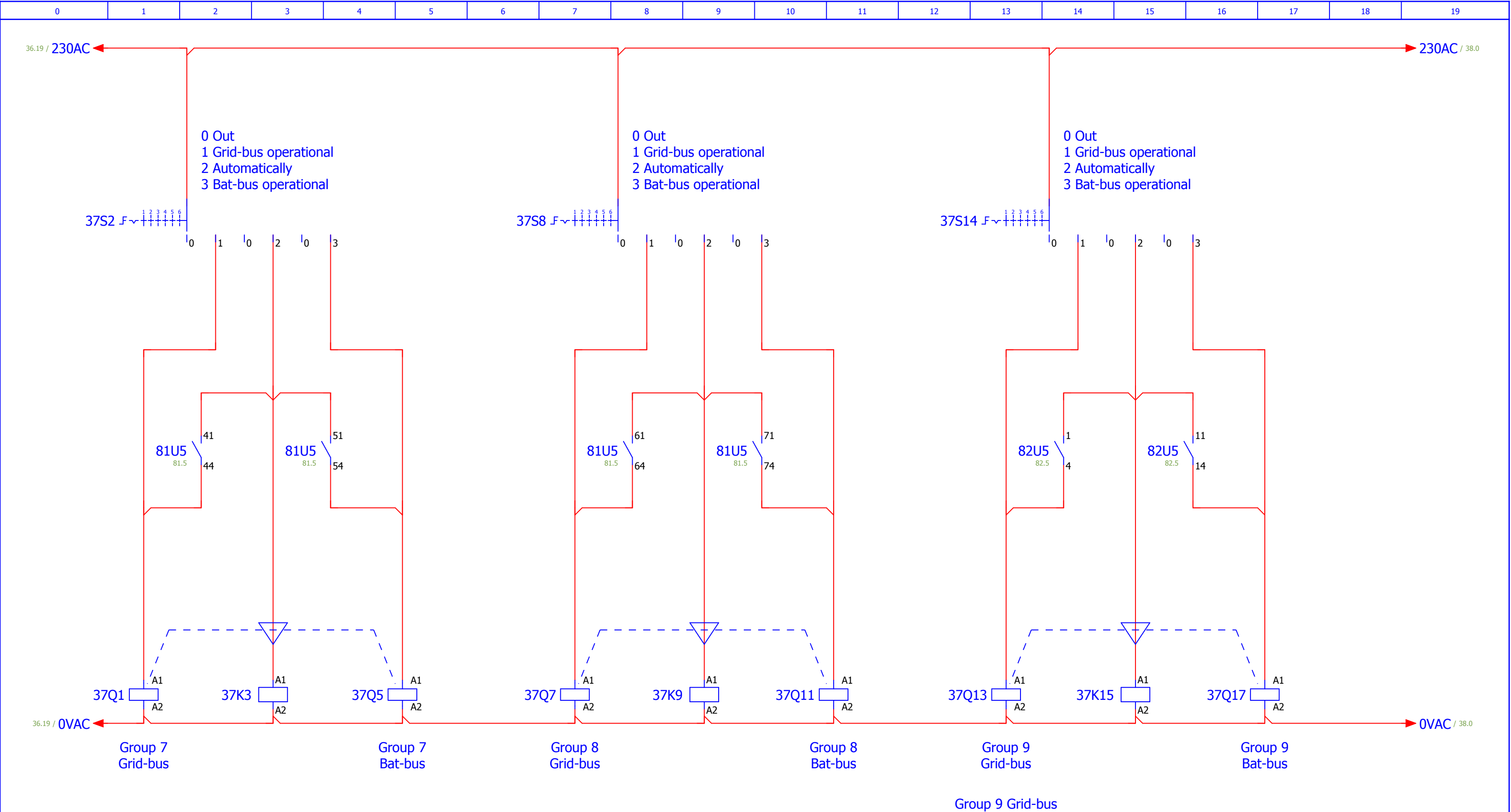
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M   V
13.1
13.1
13.2
76.6
26.6
26.10
26.6
26.7

PXC.2903310
M   V
77.17

MOE.DILM72(230V50/60HZ)
M   V
13.4
13.4
13.5
76.9
26.10
26.10
26.11

# Concept 2

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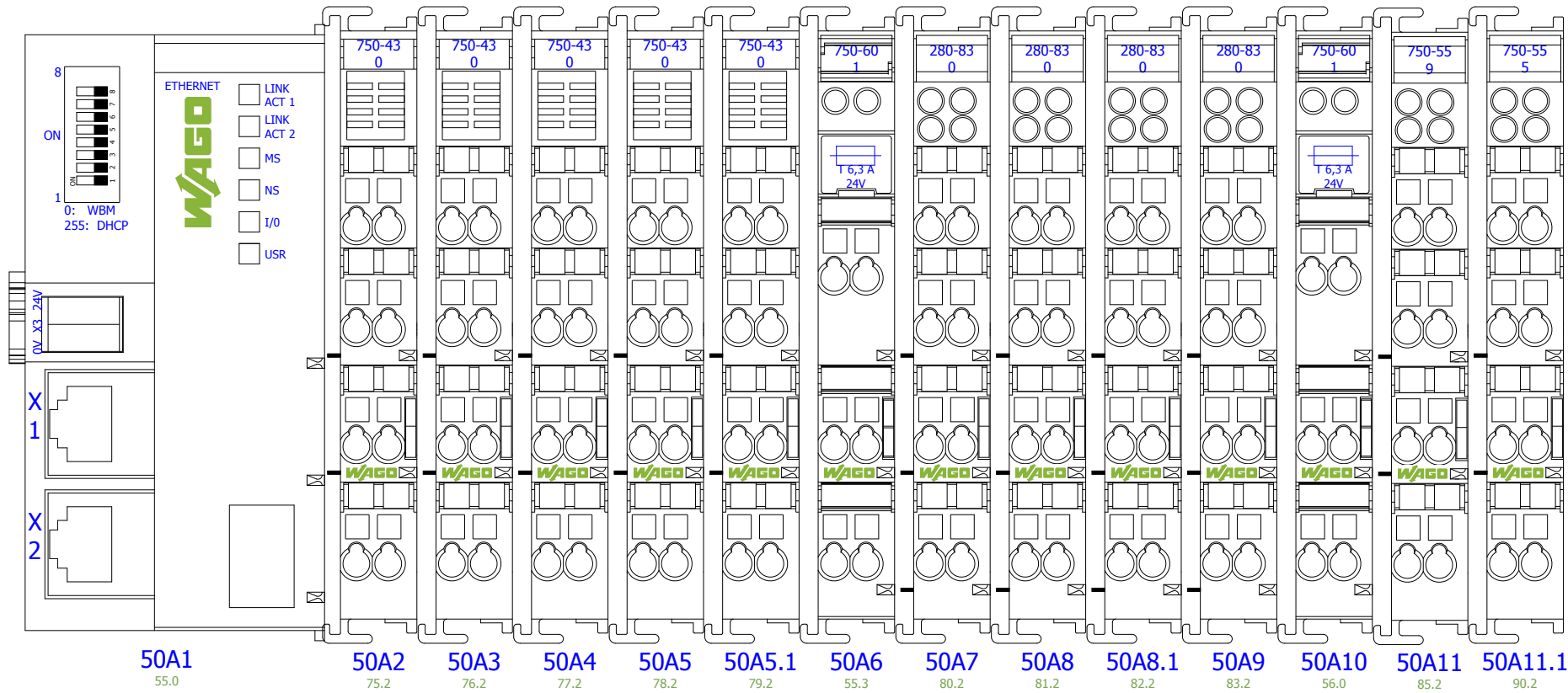
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13.8				13.11		13.14				14.2		14.2		14.5			
76.11				76.13		76.15				77.2		77.2		77.4			
27.6				27.10		28.6				29.6		29.6		29.10			
27.6				28.6		29.6				29.6		29.6		29.10			
27.7				28.10		28.7				29.7		29.7		29.11			

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			Date	29-5-2017	Wageningen UR ACRRES			A: Reigersbos 1 P: 2461 TV Ter Aar(NL) T: +31(0)172539536 F: +31(0)172539742 E: info@konst-elektrotechnik.nl	Pilotcurrent 230Vdc Multifunctional power analyser	Schemenumber 0590080		=	Page 38
			Ed.	eplan								+	
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Modification	Date	Name	Original		Replaced by	Replaced by							Page 405

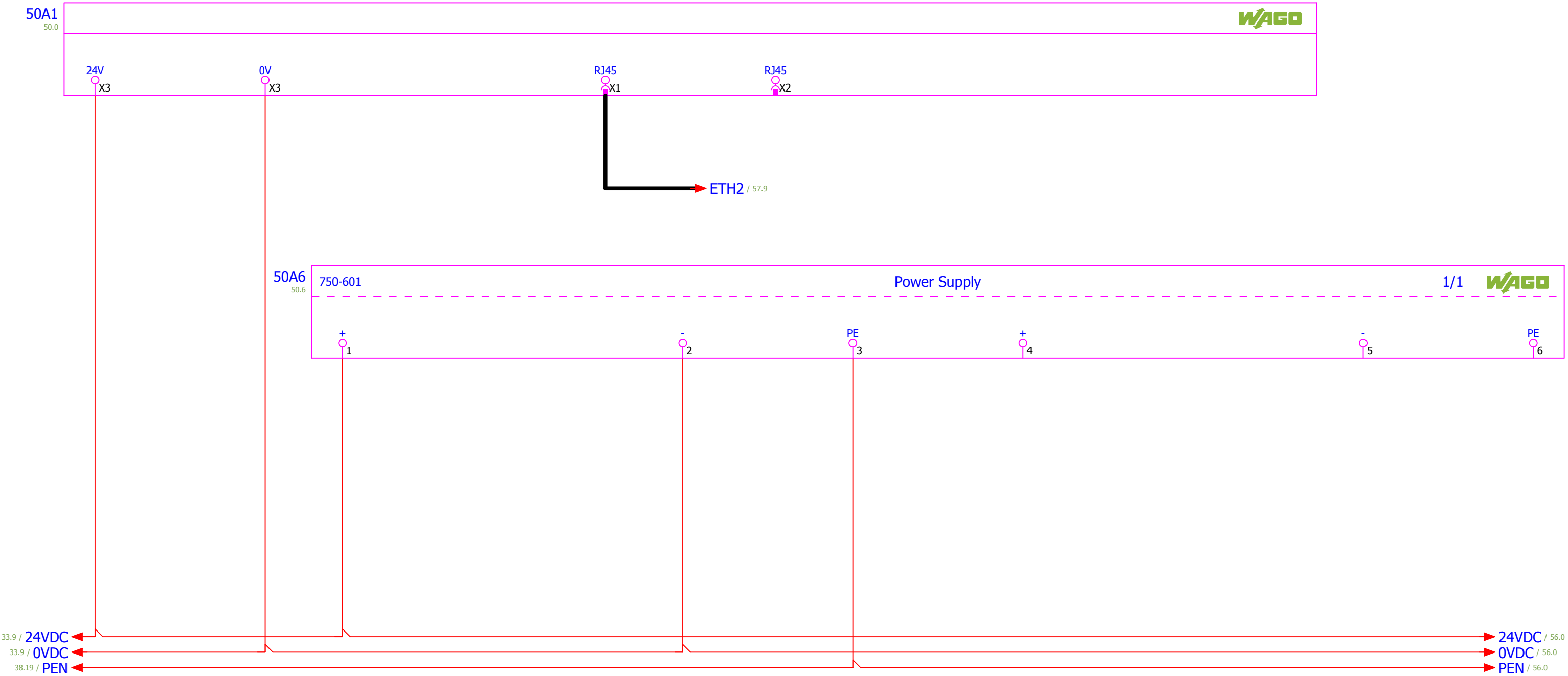




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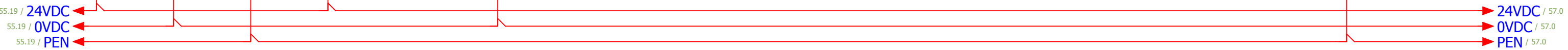
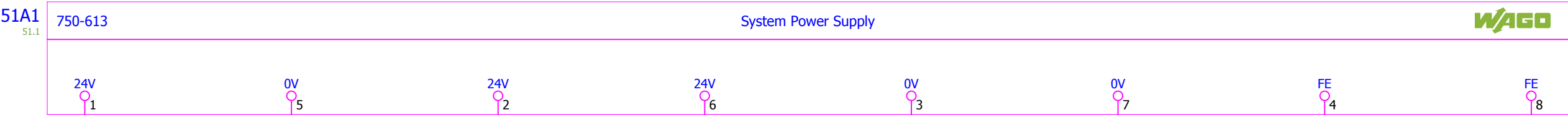
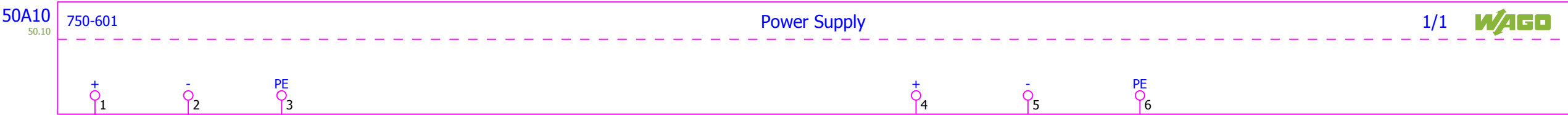


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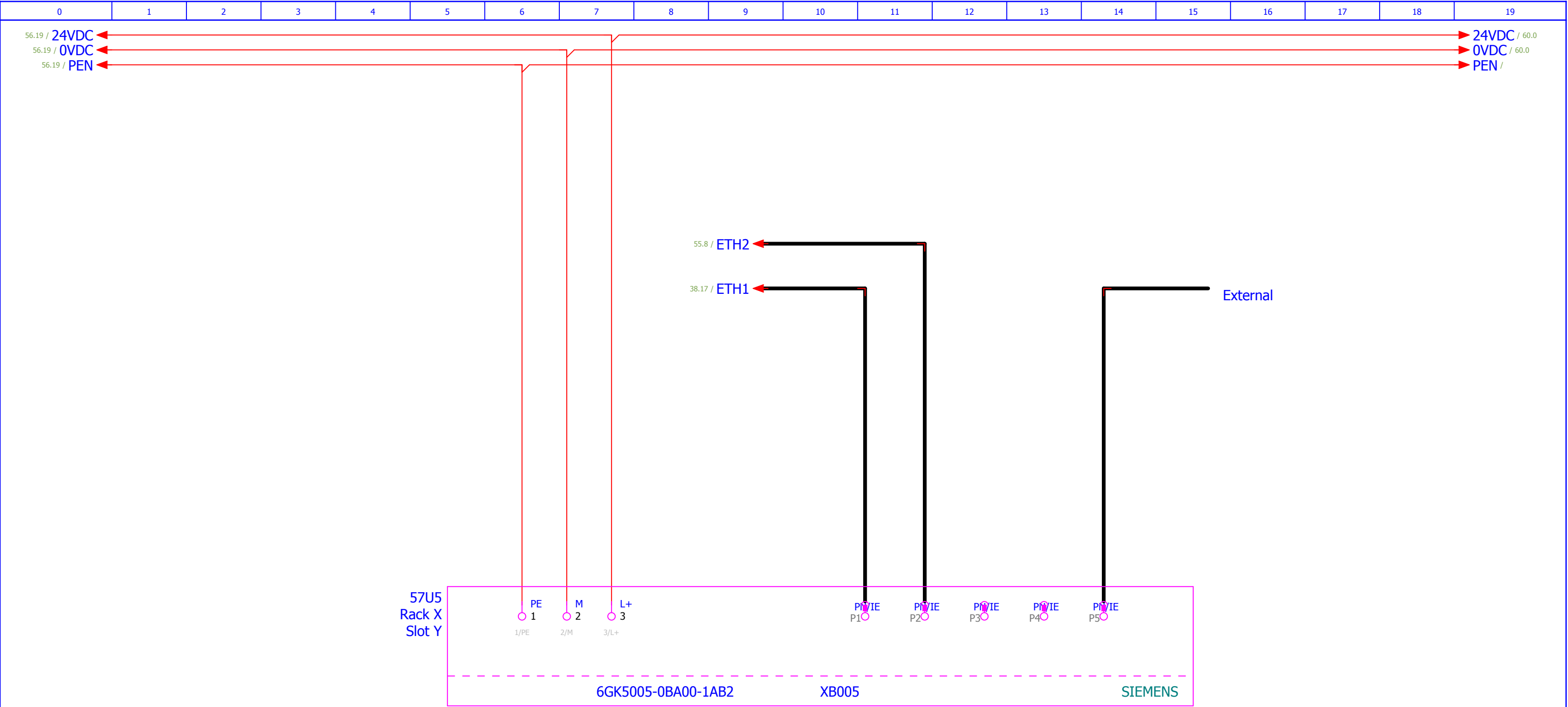


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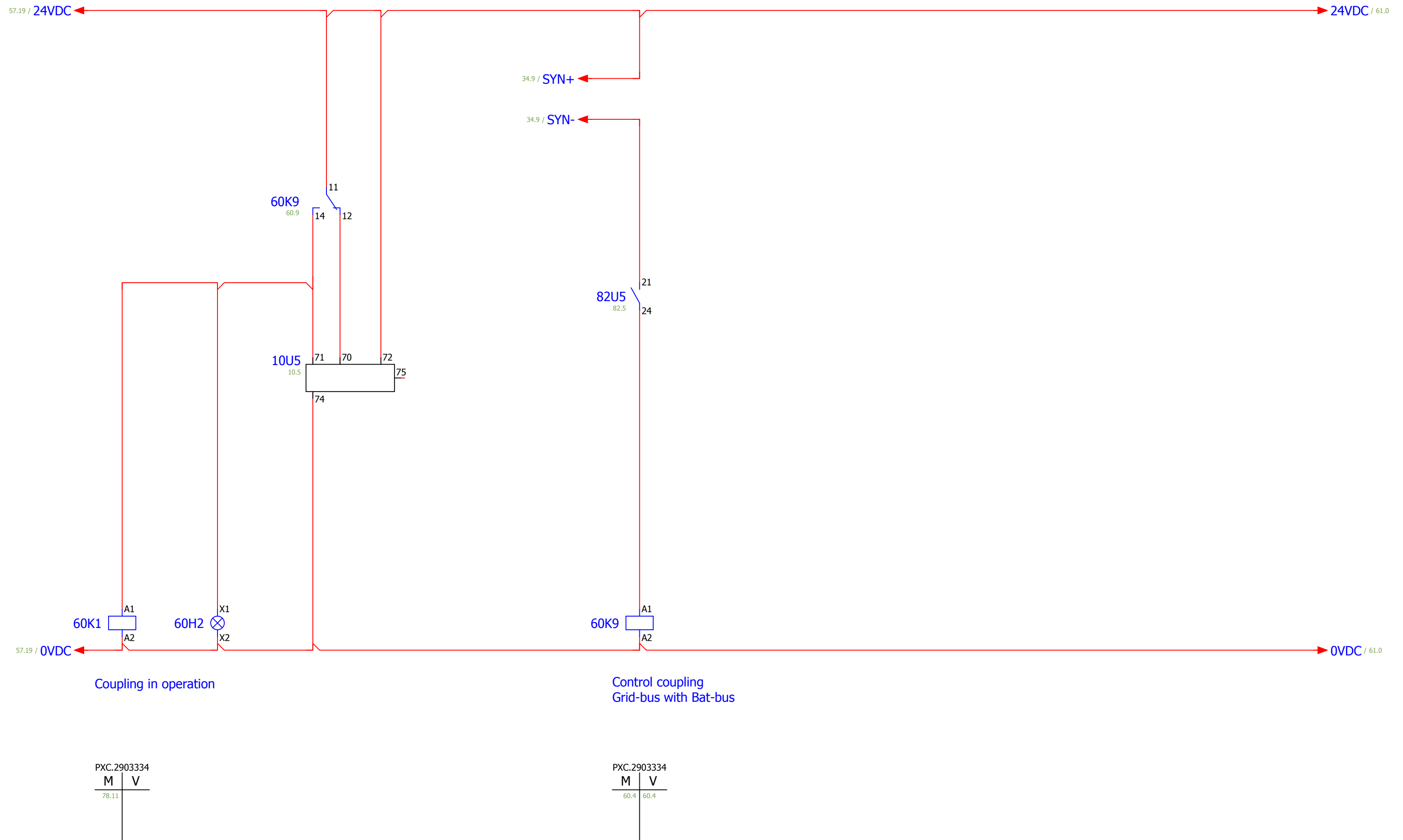




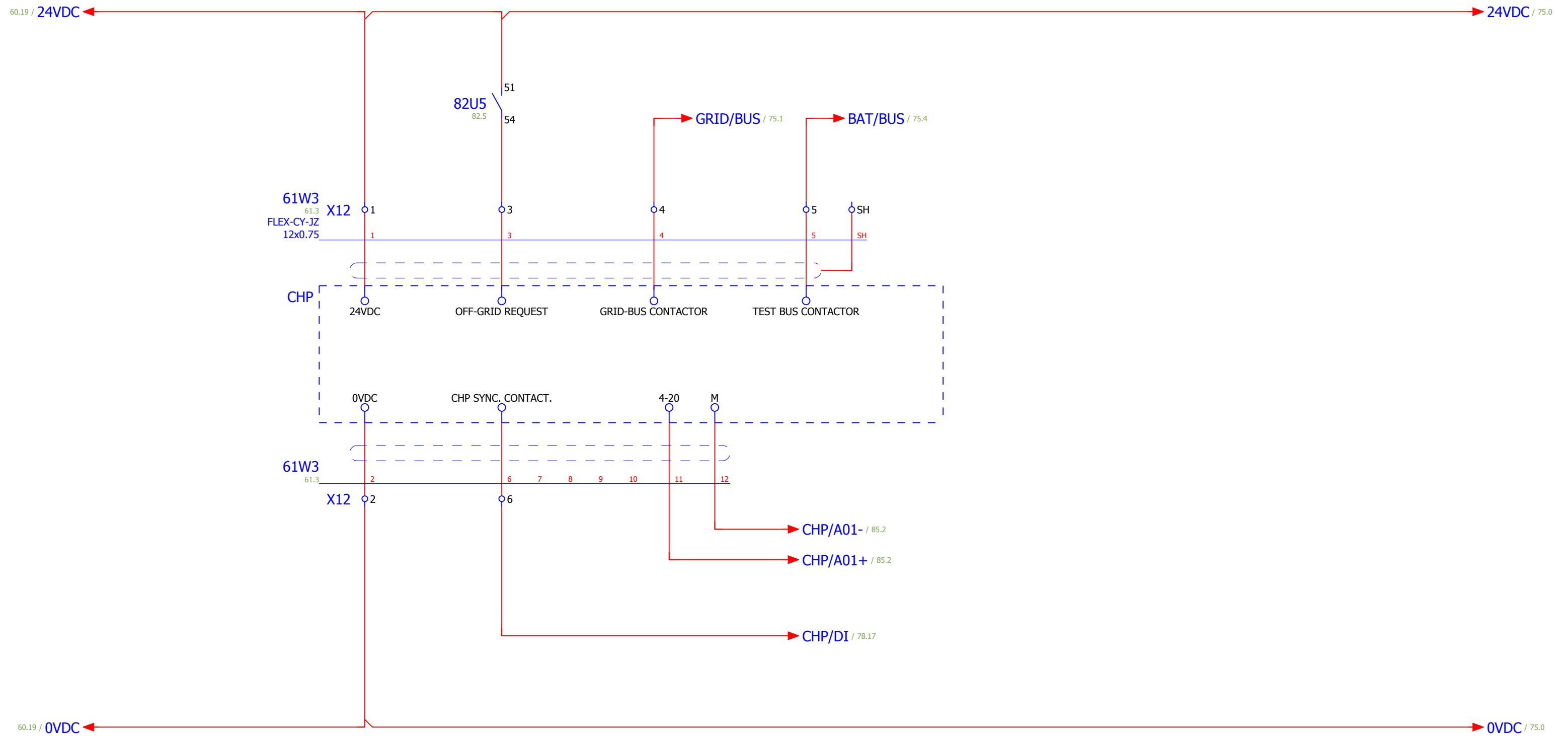
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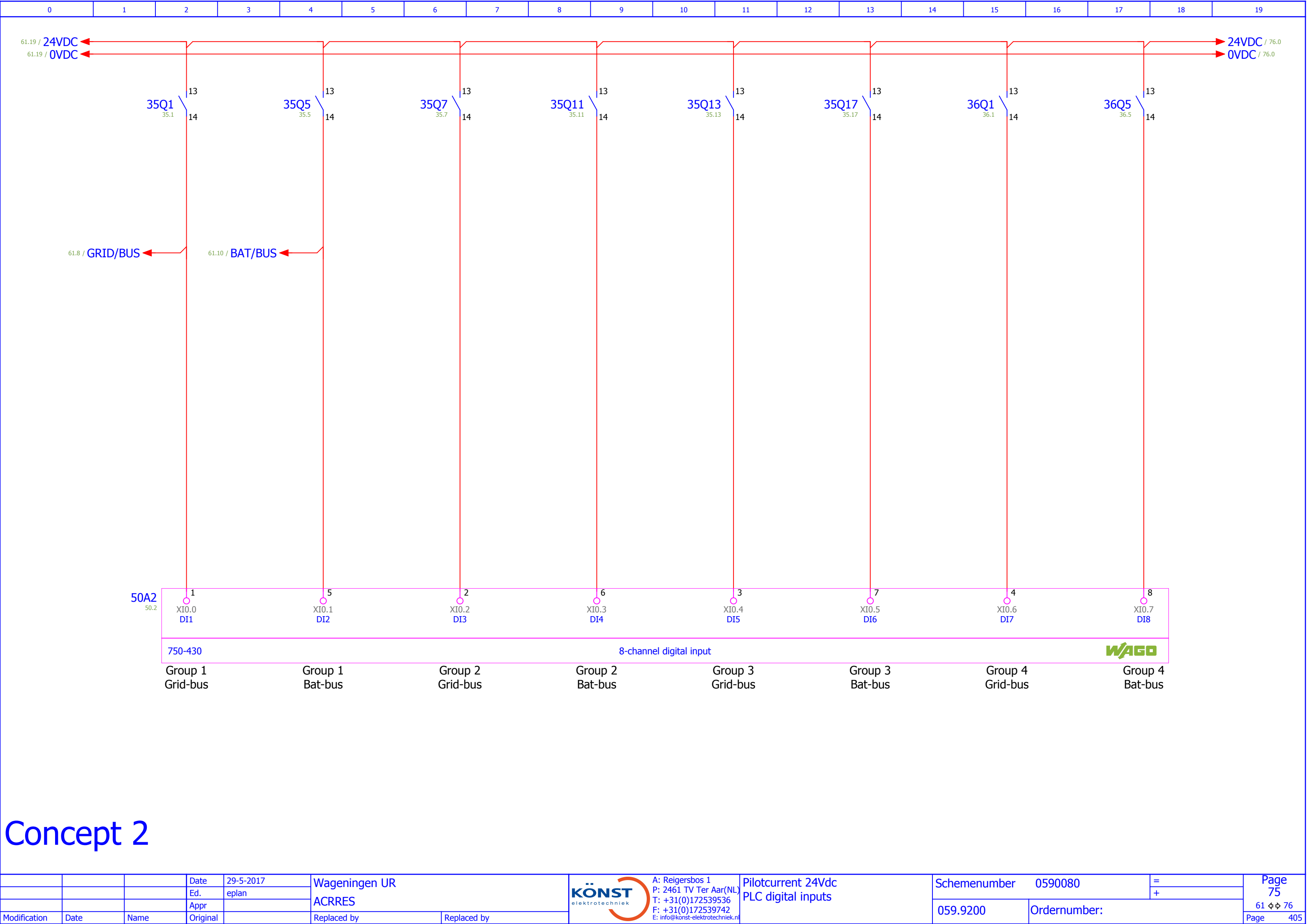
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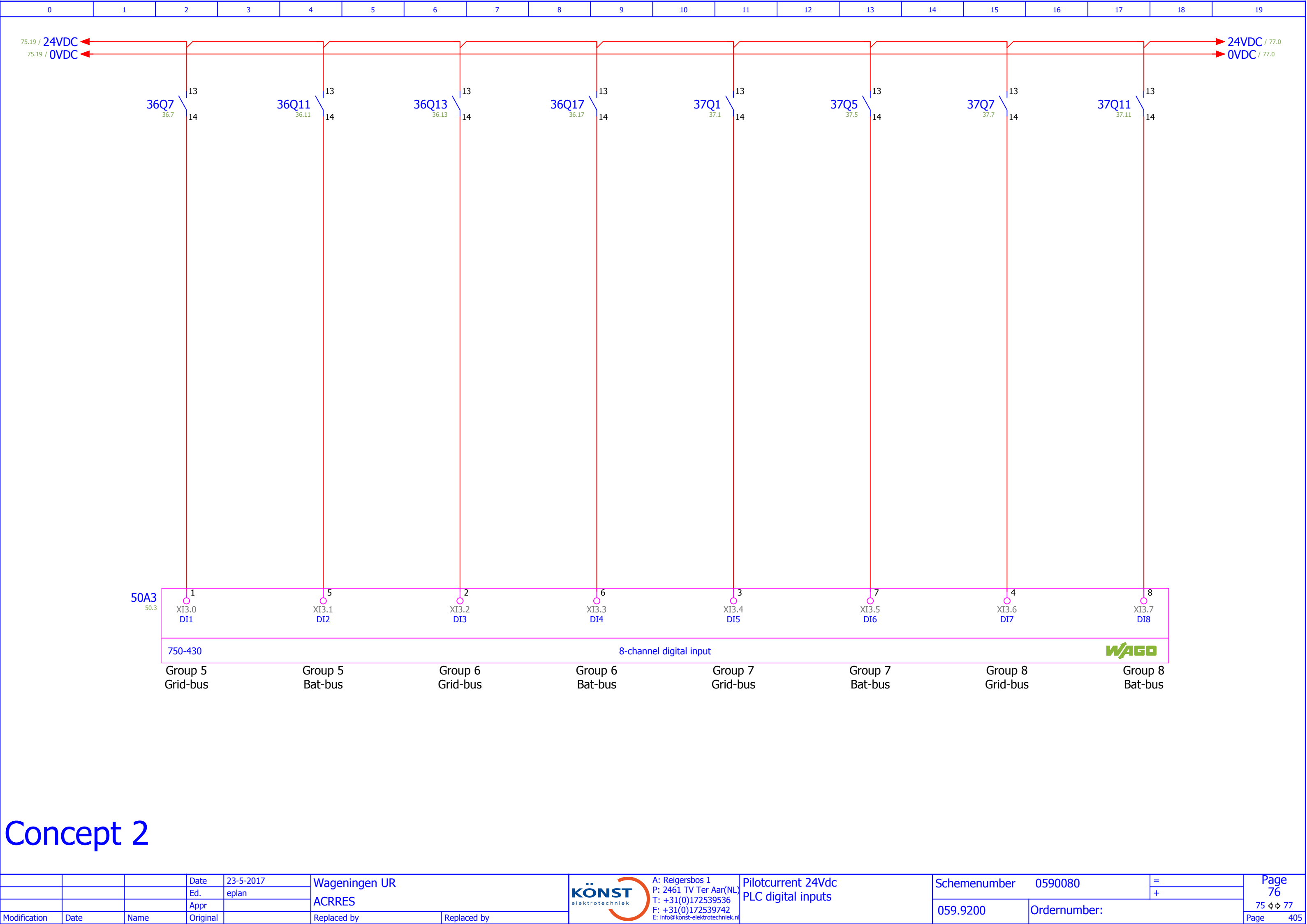


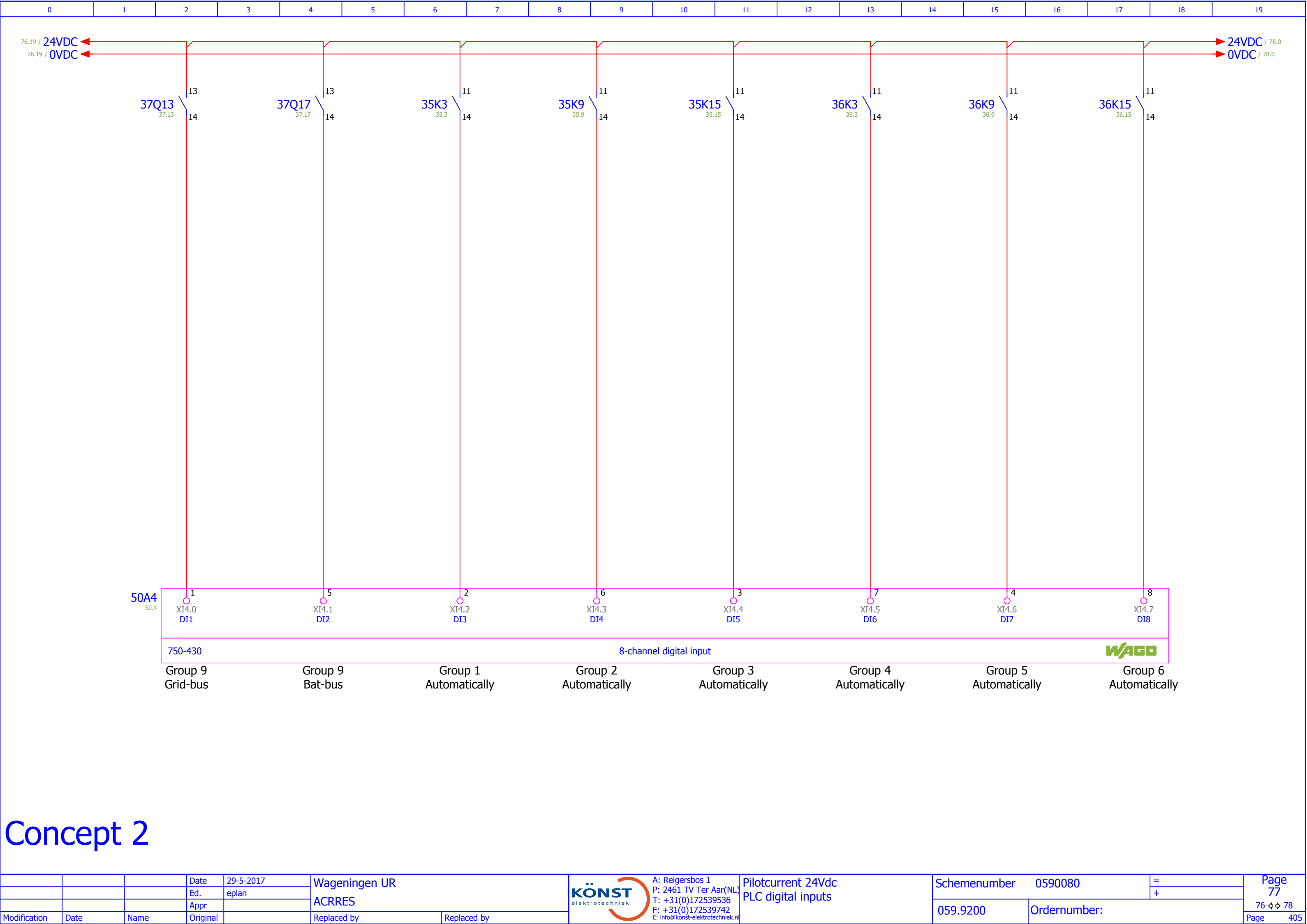
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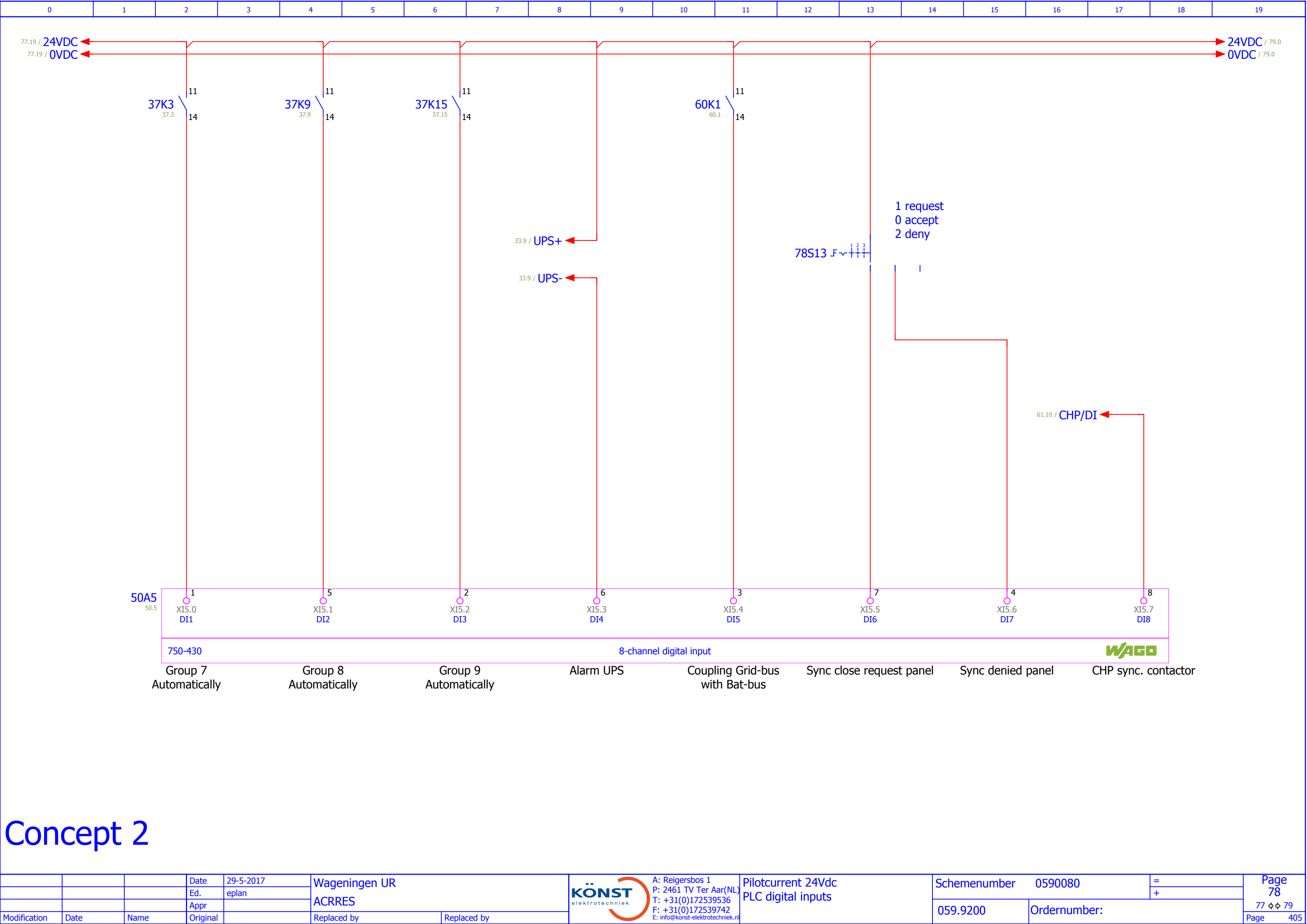


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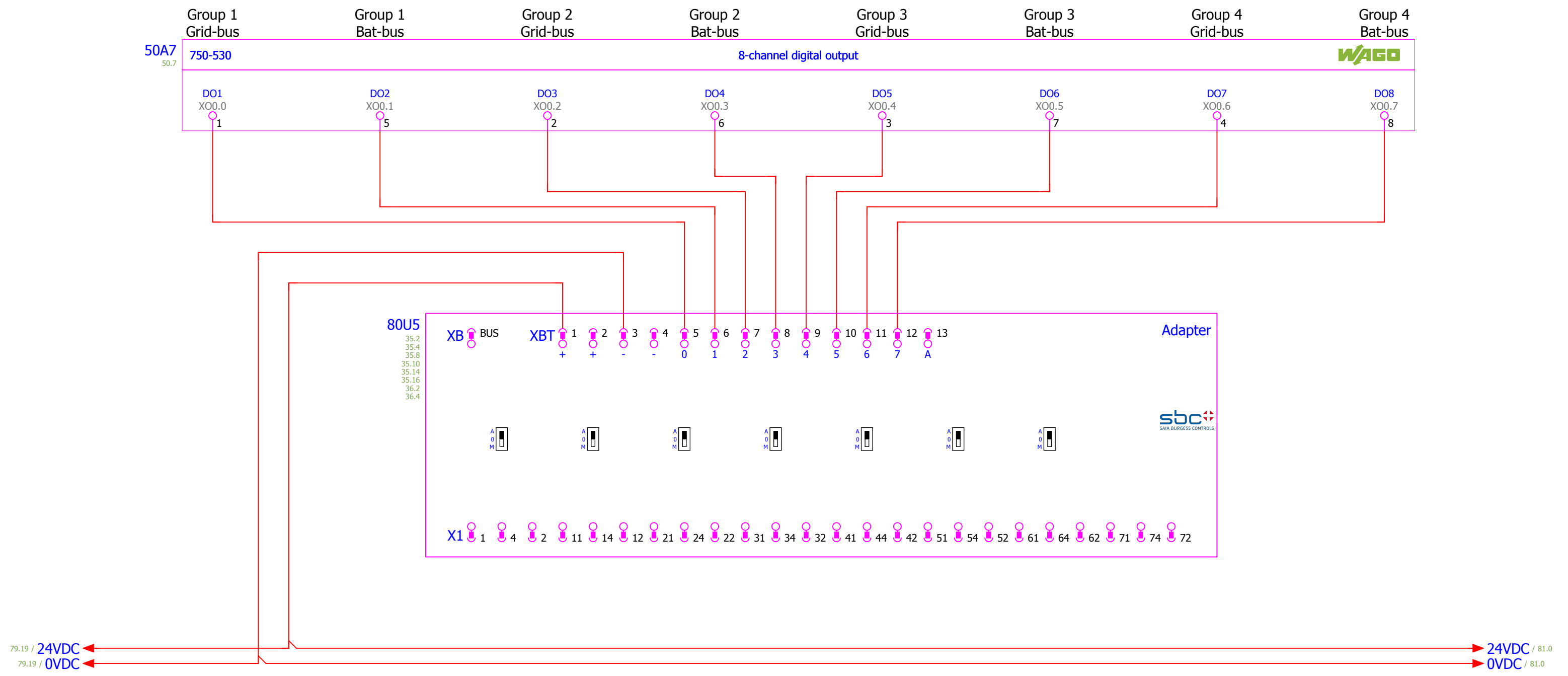






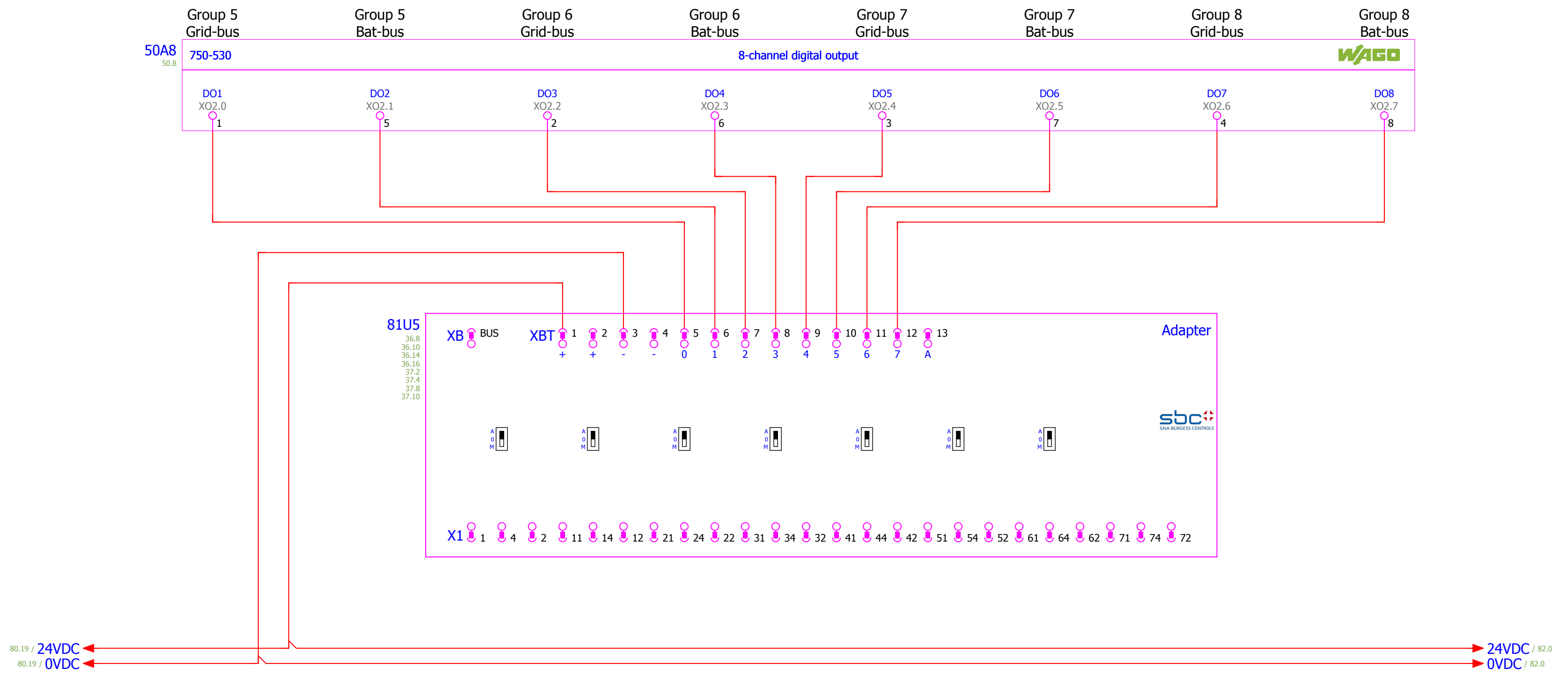






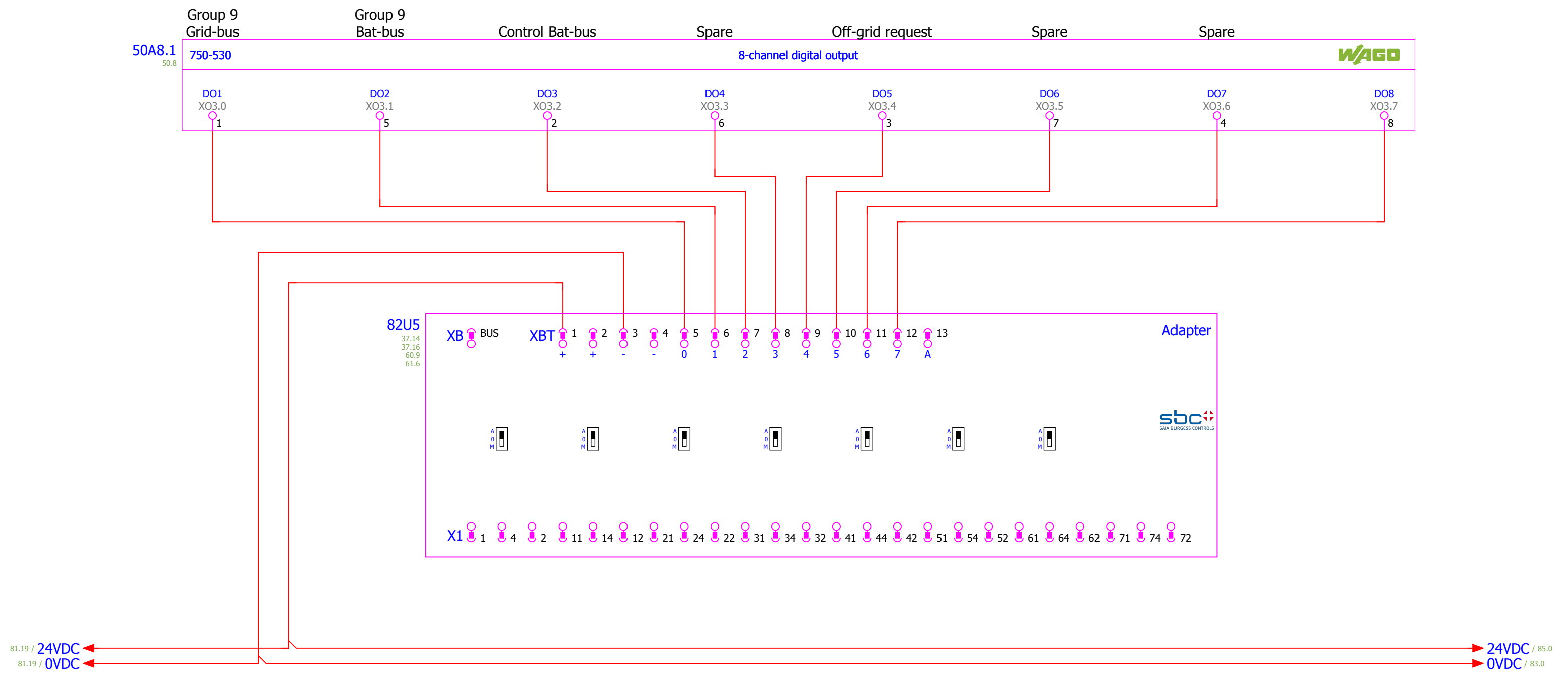
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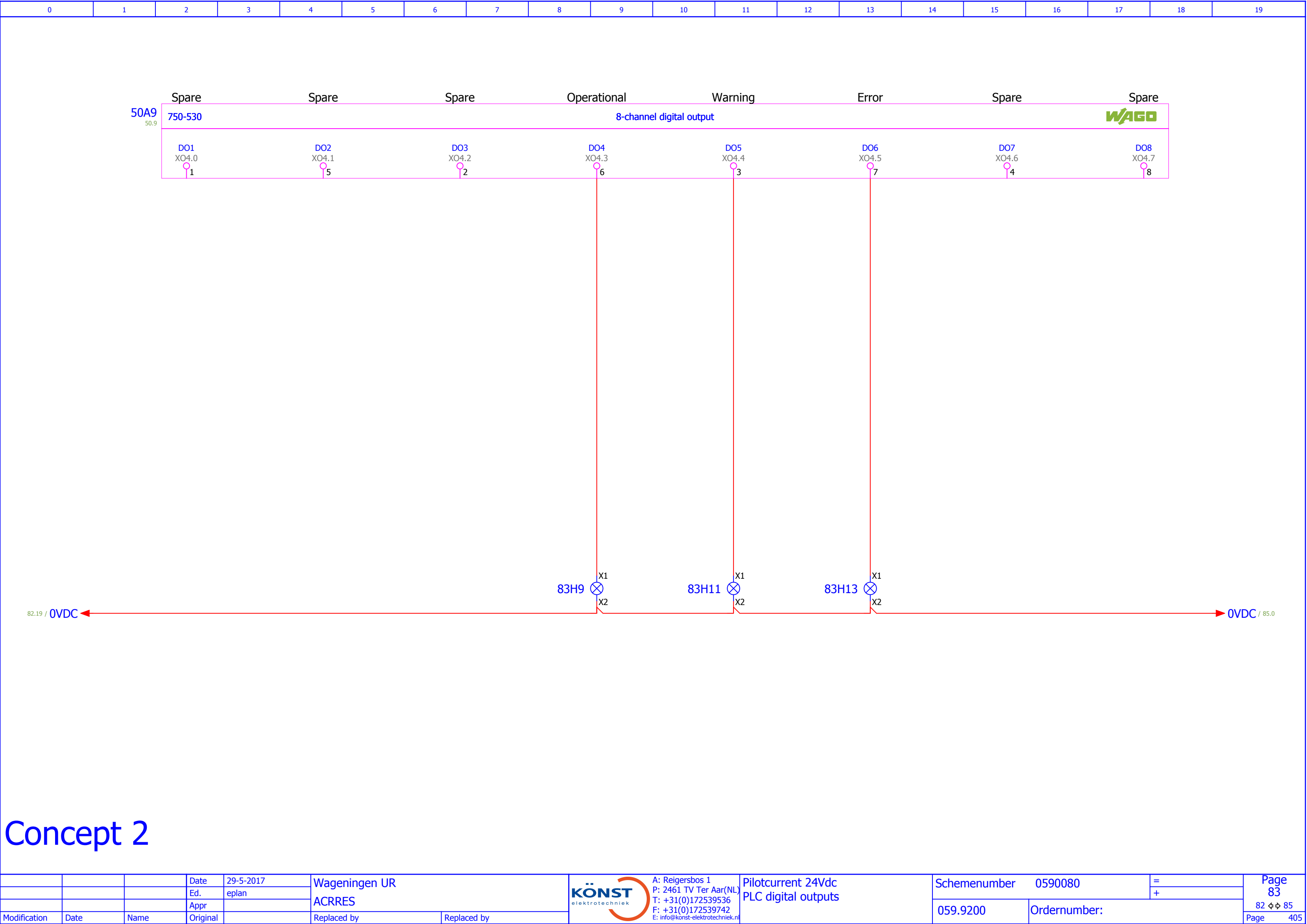


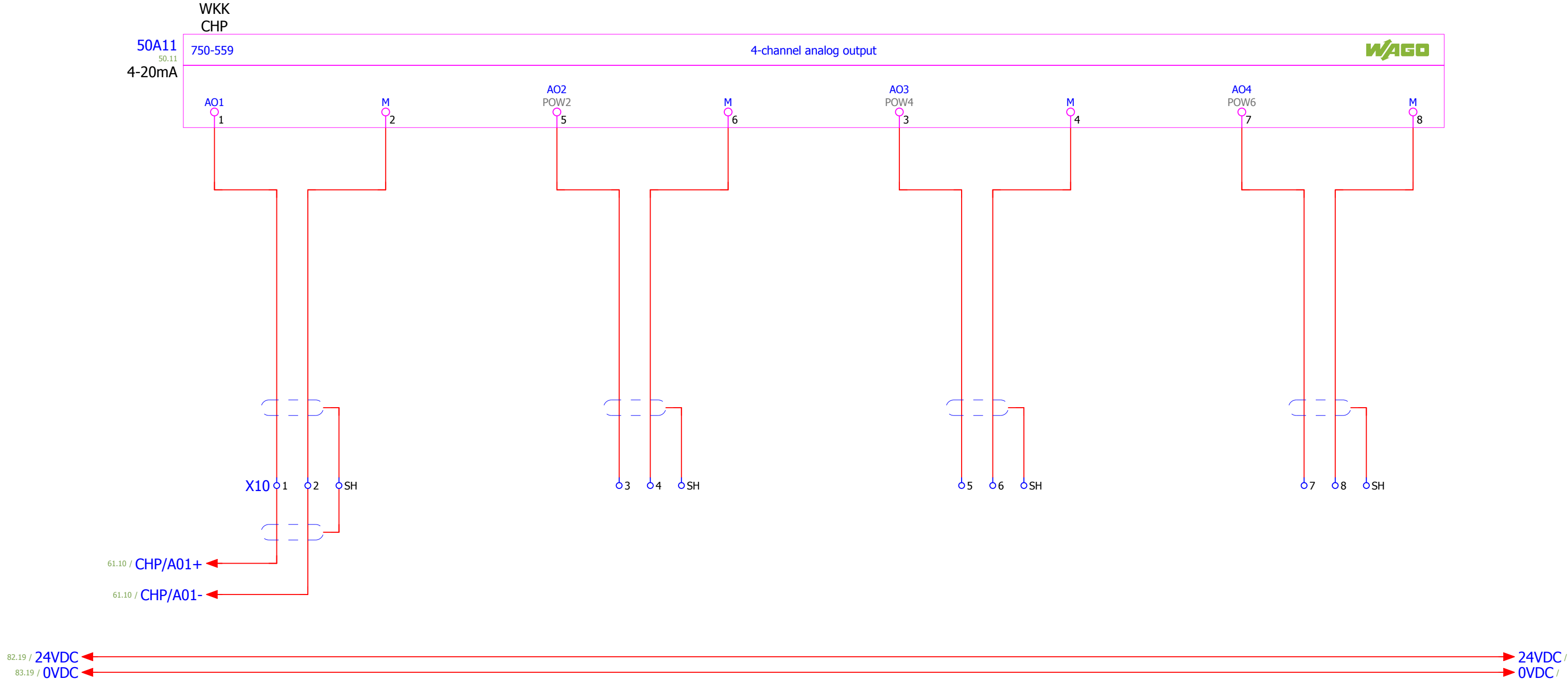
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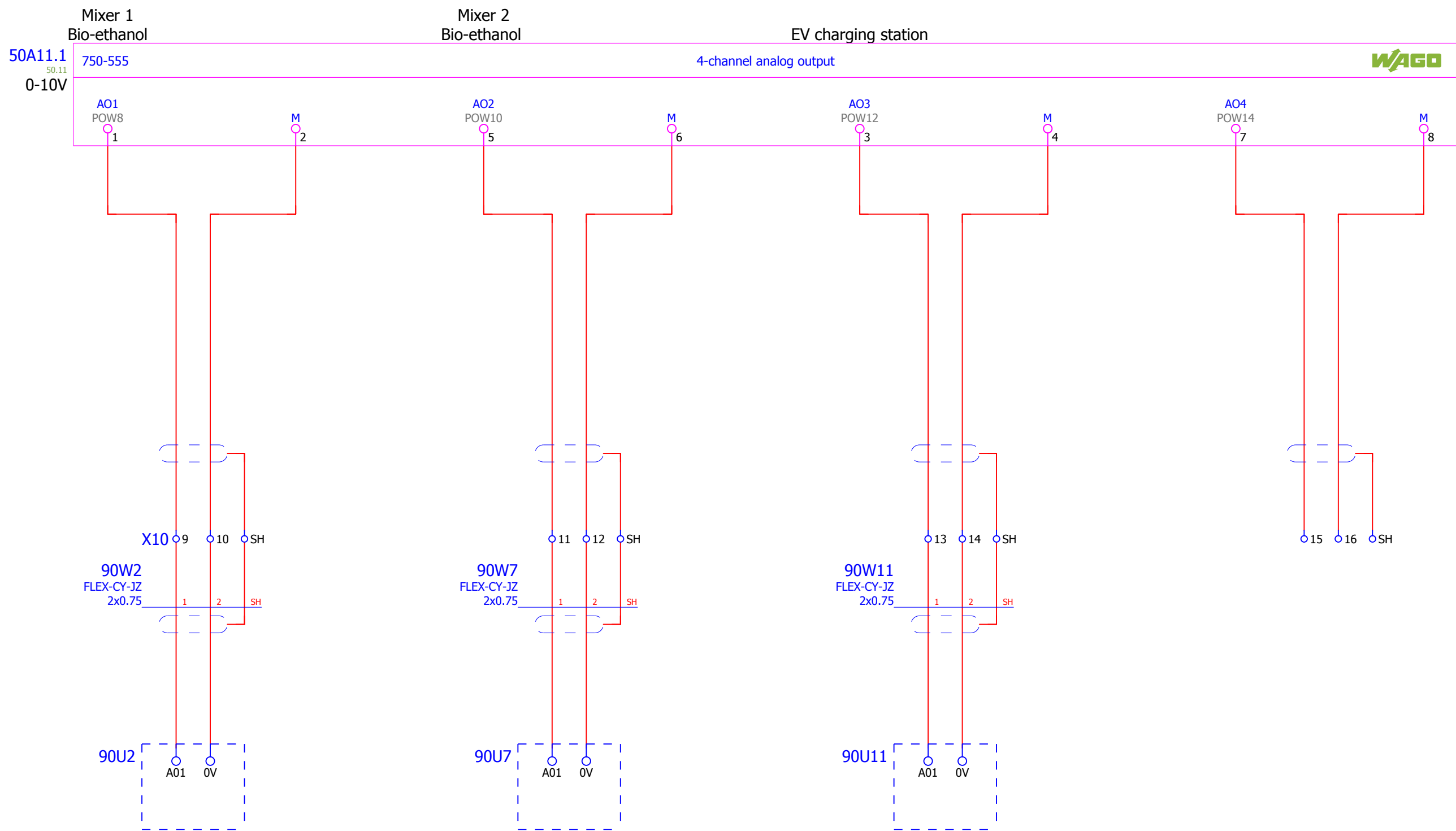
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# Concept 2

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			Date	29-5-2017	Wageningen UR ACRRES		 <div> <div>A: Reigersbos 1</div> <div>P: 2461 TV Ter Aar(NL)</div> <div>T: +31(0)172539536</div> <div>F: +31(0)172539742</div> <div>E: info@konst-elektrotechnik.nl</div> </div>	Device tag list : 50A2 - 51A15	Schemenumber 0590080		=	Page 100																																																																																																																																																																																											
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Concept 2




Device tag list

device tag	Quantity	designation	Type number	manufacturer	part number
11F13	1	NH isolator s.00, 160 A, 690 V, 60 mm box terminal	SV.9343000	RIT	9343000
11F16	1	NH isolator s.00, 160 A, 690 V, 60 mm box terminal	SV.9343000	RIT	9343000
12F1	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
12F4	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
12F7	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
12F10	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
12F13	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
12F16	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
13F1	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
13F4	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
13F7	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
13F10	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
13F13	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
13F16	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
14F1	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
14F4	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
15F1	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
15F5	1	SV NH Fuse-switch disconnectors, size 000 100A, 3-pole, Box terminal outlet at top	SV.3431030	RIT	3431030
20F6	1	Miniature circuit-breaker	Xpole -B6/3+N	MOE	242986
20F10	1	Miniature circuit-breaker	Xpole -B6/3+N	MOE	242986

Concept 2



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<tr><td>404K17.21</td><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>10L1</td><td>1</td><td>Isolating amplifier</td><td>CM-CT 400/5A stroomtrafo</td><td>ABB</td><td>2534295</td></tr> <tr><td>10L2</td><td>1</td><td>Isolating amplifier</td><td>CM-CT 400/5A stroomtrafo</td><td>ABB</td><td>2534295</td></tr> <tr><td>10L3</td><td>1</td><td>Isolating amplifier</td><td>CM-CT 400/5A stroomtrafo</td><td>ABB</td><td>2534295</td></tr> <tr><td>10L4</td><td>1</td><td>Isolating amplifier</td><td>CM-CT 400/5A stroomtrafo</td><td>ABB</td><td>2534295</td></tr> <tr><td>10L5</td><td>1</td><td>Isolating amplifier</td><td>CM-CT 400/5A stroomtrafo</td><td>ABB</td><td>2534295</td></tr> <tr><td>10L6</td><td>1</td><td>Isolating amplifier</td><td>CM-CT 400/5A stroomtrafo</td><td>ABB</td><td>2534295</td></tr> <tr><td>10L7</td><td>1</td><td>Isolating amplifier</td><td>CM-CT 400/5A stroomtrafo</td><td>ABB</td><td>2534295</td></tr> <tr><td>11L2</td><td>1</td><td>Isolating amplifier</td><td>CM-CT 400/5A 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Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310	36K3	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310	36K9	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310	36K15	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310	37K3	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310	37K9	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310	37K15	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310	50K6	1	2-channel digital output	750-512	WAGO		60K1	1	Relay Module	RIF-1-RPT-LDP-24DC/2X21	PXC	2903334	60K9	1	Relay Module	RIF-1-RPT-LDP-24DC/2X21	PXC	2903334	404K17.21	0					10L1	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	10L2	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	10L3	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	10L4	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	10L5	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	10L6	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	10L7	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	11L2	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	11L3	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	11L4	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295	11L8	1	Isolating amplifier	CM-CT 300/5A stroomtrafo	ABB	2534294	11L9	1	Isolating amplifier	CM-CT 300/5A stroomtrafo	ABB	2534294
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35K15	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310																																																																																																																																																																																																		
36K3	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310																																																																																																																																																																																																		
36K9	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310																																																																																																																																																																																																		
36K15	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310																																																																																																																																																																																																		
37K3	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310																																																																																																																																																																																																		
37K9	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310																																																																																																																																																																																																		
37K15	1	Relay Module	RIF-2-RPT-LV-230AC/2X21	PXC	2903310																																																																																																																																																																																																		
50K6	1	2-channel digital output	750-512	WAGO																																																																																																																																																																																																			
60K1	1	Relay Module	RIF-1-RPT-LDP-24DC/2X21	PXC	2903334																																																																																																																																																																																																		
60K9	1	Relay Module	RIF-1-RPT-LDP-24DC/2X21	PXC	2903334																																																																																																																																																																																																		
404K17.21	0																																																																																																																																																																																																						
10L1	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
10L2	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
10L3	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
10L4	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
10L5	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
10L6	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
10L7	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
11L2	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
11L3	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
11L4	1	Isolating amplifier	CM-CT 400/5A stroomtrafo	ABB	2534295																																																																																																																																																																																																		
11L8	1	Isolating amplifier	CM-CT 300/5A stroomtrafo	ABB	2534294																																																																																																																																																																																																		
11L9	1	Isolating amplifier	CM-CT 300/5A stroomtrafo	ABB	2534294																																																																																																																																																																																																		
				Date	29-5-2017	Wageningen UR ACRRES		 <div> <div>A: Reigersbos 1</div> <div>P: 2461 TV Ter Aar(NL)</div> <div>T: +31(0)172539536</div> <div>F: +31(0)172539742</div> <div>E: info@konst-elektrotechnik.nl</div> </div>	Device tag list : 83H11 - 11L9	Schemenumber 0590080		=	Page 103																																																																																																																																																																																										
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				Appr						059.9200	Ordernumber:		102 ⇄ 104																																																																																																																																																																																										
Modification	Date	Name	Original			Replaced by	Replaced by						Page 405																																																																																																																																																																																										

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Device tag list

device tag	Quantity	designation	Type number	manufacturer	part number
11L10	1	Isolating amplifier	CM-CT 300/5A stroomtrafo	ABB	2534294
11L14	1	Isolating amplifier	CM-CT 200/5A stroomtrafo	ABB	2534293
11L15	1	Isolating amplifier	CM-CT 200/5A stroomtrafo	ABB	2534293
11L16	1	Isolating amplifier	CM-CT 200/5A stroomtrafo	ABB	2534293
12L2	1	Isolating amplifier	CM-CT 200/5A stroomtrafo	ABB	2534293
12L3	1	Isolating amplifier	CM-CT 200/5A stroomtrafo	ABB	2534293
12L4	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
12L8	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
12L9	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
12L10	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
12L14	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
12L15	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
12L16	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L2	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L3	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L4	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L8	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L9	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L10	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L14	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L15	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
13L16	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
14L2	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
14L3	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
14L4	1	Isolating amplifier	CM-CT 100/5A stroomtrafo	ABB	2534291
30M16	1	Filter fan	SK.3239100	RIT	3239100
	1	Outlet filter	SK.3239200	RIT	3239200
PANEEL	1	TS Bayed enclosure system, WHD: 1200x1800x500 mm, Sheet steel	TS.8285500	RIT	8285500
	1	Baying systems TS 8 , whd 600x1800x500 mm	TS.8685500	RIT	8685500

Concept 2

Device tag list

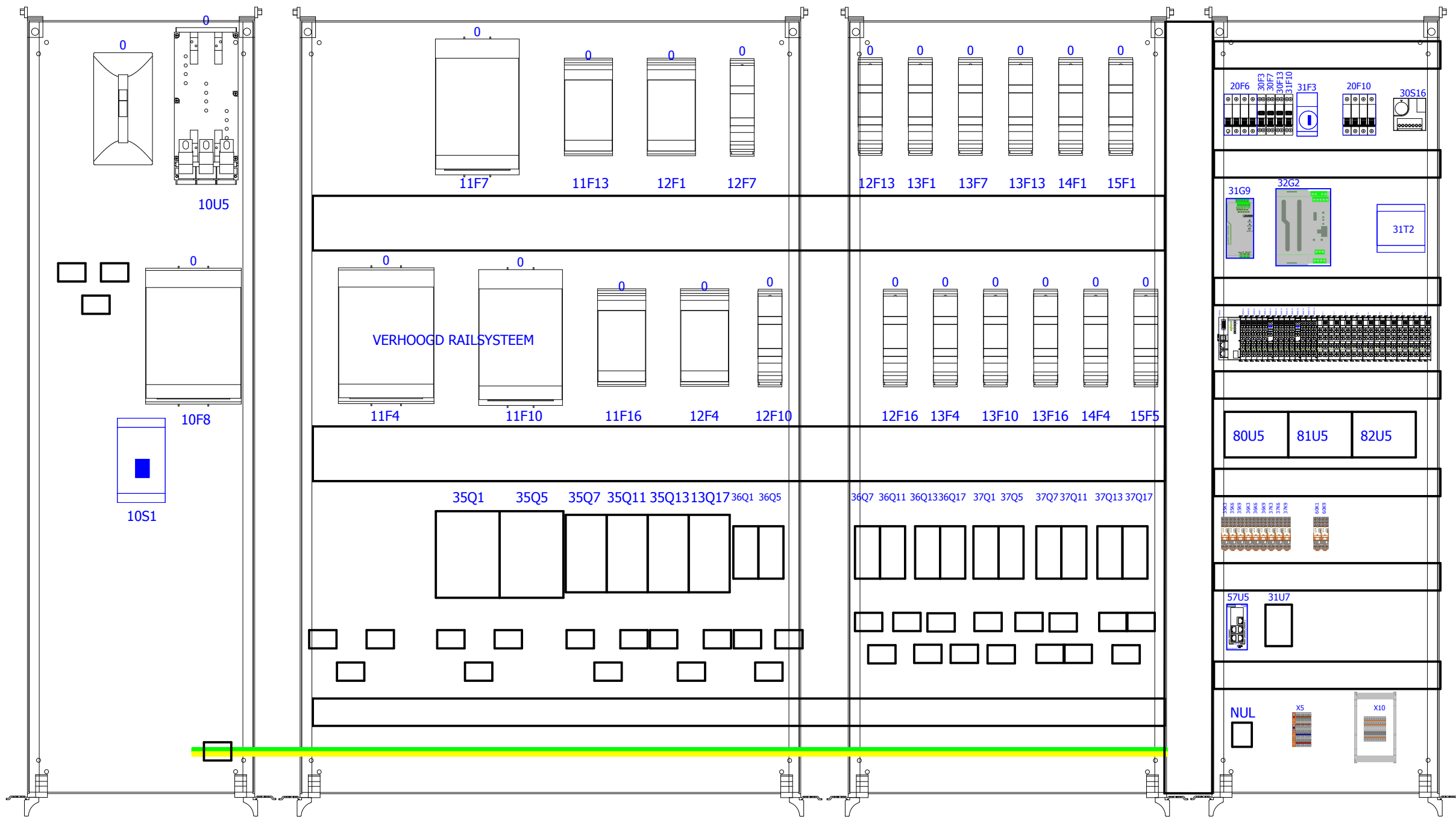
device tag	Quantity	designation	Type number	manufacturer	part number
	1	Baying systems TS 8 , whd 800x1800x500 mm	TS.8885500	RIT	8885500
	12	Flex-Block corner pieces, 200 mm for TS, TS IT, SE, PC	TS.8200000	RIT	8200000
	2	Flex-Block trim panels, 200 mm, sealed for Flex-Block corner pieces	TS.8200120	RIT	8200120
	2	Flex-Block trim panels, 200 mm, sealed for Flex-Block corner pieces	TS.8200600	RIT	8200600
	2	Flex-Block trim panels, 200 mm, sealed for Flex-Block corner pieces	TS.8200800	RIT	8200800
	2	Flex-Block trim panels, 200 mm, sealed for Flex-Block corner pieces	TS.8200500	RIT	8200500
35Q1	1	Contactor, 3p+2N/O+2N/C, 90kW/400V/AC3	DILM185-S/22(220-240V50/60HZ)	MOE	274185
35Q5	1	Contactor, 3p+2N/O+2N/C, 90kW/400V/AC3	DILM185-S/22(220-240V50/60HZ)	MOE	274185
35Q7	1	Contactor, 3p+2N/O+2N/C, 55kW/400V/AC3	DILM115-22(RAC240)	MOE	239578
35Q11	1	Contactor, 3p+2N/O+2N/C, 55kW/400V/AC3	DILM115-22(RAC240)	MOE	239578
35Q13	1	Contactor, 3p+2N/O+2N/C, 55kW/400V/AC3	DILM115-22(RAC240)	MOE	239578
35Q17	1	Contactor, 3p+2N/O+2N/C, 55kW/400V/AC3	DILM115-22(RAC240)	MOE	239578
36Q1	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
36Q5	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
36Q7	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
36Q11	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
36Q13	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
36Q17	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
37Q1	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
37Q5	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
37Q7	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
37Q11	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
37Q13	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
37Q17	1	Contactor, 3p, 37kW/400V/AC3	DILM72(230V50/60HZ)	MOE	109201
RAIL1	8	RiLine60 busbar support 3-pole, interior attachment packs of 4	SV.9340000	RIT	9340000
	1	Base tray	SV.9340170	RIT	9340170
	2	RiLine60 end cover for SV 9340.000/010 packs of 2	SV.9340070	RIT	9340070
	3	SV Busbar E-Cu, WH: 30x10 mm, L: 2400 mm	SV.3586005	RIT	3586005

Concept 2

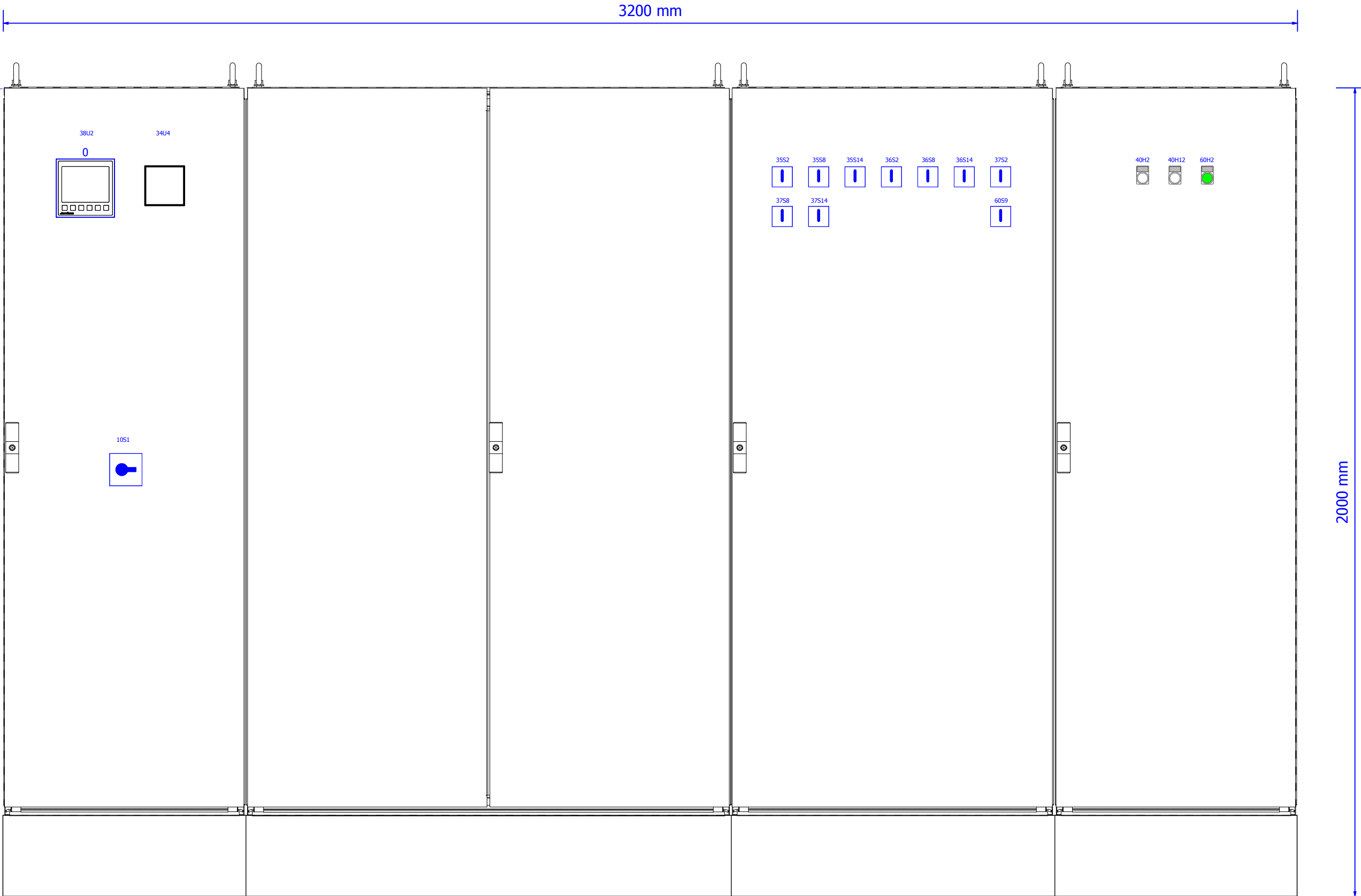
Device tag list

device tag	Quantity	designation	Type number	manufacturer	part number
	1	Connection adaptor 800A, 690V 3-pole, outlet top/bottom, max. 300 mm²	SV.9342280	RIT	9342280
	1	SV Cover section, L: 1100 mm	SV.9340210	RIT	9340210
RAIL2	8	RiLine60 busbar support 3-pole, interior attachment packs of 4	SV.9340000	RIT	9340000
	1	Base tray	SV.9340170	RIT	9340170
	2	RiLine60 end cover for SV 9340.000/010 packs of 2	SV.9340070	RIT	9340070
	3	SV Busbar E-Cu, WH: 30x10 mm, L: 2400 mm	SV.3586005	RIT	3586005
	1	SV Circuit-breaker component adaptor, 400 A, 690 V, 3-pole, cable outlet top	SV.9345720	RIT	9345720
	1	SV Cover section, L: 1100 mm	SV.9340210	RIT	9340210
10S1	1	Circuit-breaker, 3p,400A	NZMN3-VE400	MOE	259132
31S16	1	Cabinet Thermostat	RIT.SK3110000	RITTAL	SK3110000
32T2	1	Isolating Transformer 0,63kVA	RSTN 630	RIED	0312-00000630
10U5	1	Switch-disconnector, 3p, 400A	N3-400	MOE	266019
	1	Remote operator, for size 3	NZM3-XR24-30DC	MOE	259854
38U2	1	Multifunctional power analyser with colour grafic LCD	UMG509	JAN	5226001
57U5	1	Siemens SIEM XB005 IE SWITCH 5 ports	S7	SIEMEN	6GK5005-0BA00-1AB2
80U5	1	Relay interface module for 8 transistor outputs, with LEDs	PCD2.K552	SBC	PCD2.K552
81U5	1	Relay interface module for 8 transistor outputs, with LEDs	PCD2.K552	SBC	PCD2.K552
82U5	1	Relay interface module for 8 transistor outputs, with LEDs	PCD2.K552	SBC	PCD2.K552

Concept 2



Concept 2



Concept 2