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F26_001-komunala



DAMA engineering d.o.o.

Cesta II grupe odredov 25
SI-1261 Ljubljana, Slovenija
tel.: +386 1 542 80 18
fax : +386 1 542 80 19

Naročnik	Splošna bolnišnica Dr. Franca Derganca
Projekt	Merski jez
Št. projekta	P1842601
Stikalni blok	RO-MJ

Podjetje	DAMA engineering d.o.o.
Odgovorni projektant	Danko Plut B.Sc.E.E.
Ime projekta	P1842601 Splošna bolnišnica Franca Derganca
Izdelal	Aleš Cepec B.Sc.E.E.
Oznaka elektro načrta	4.1.5.3

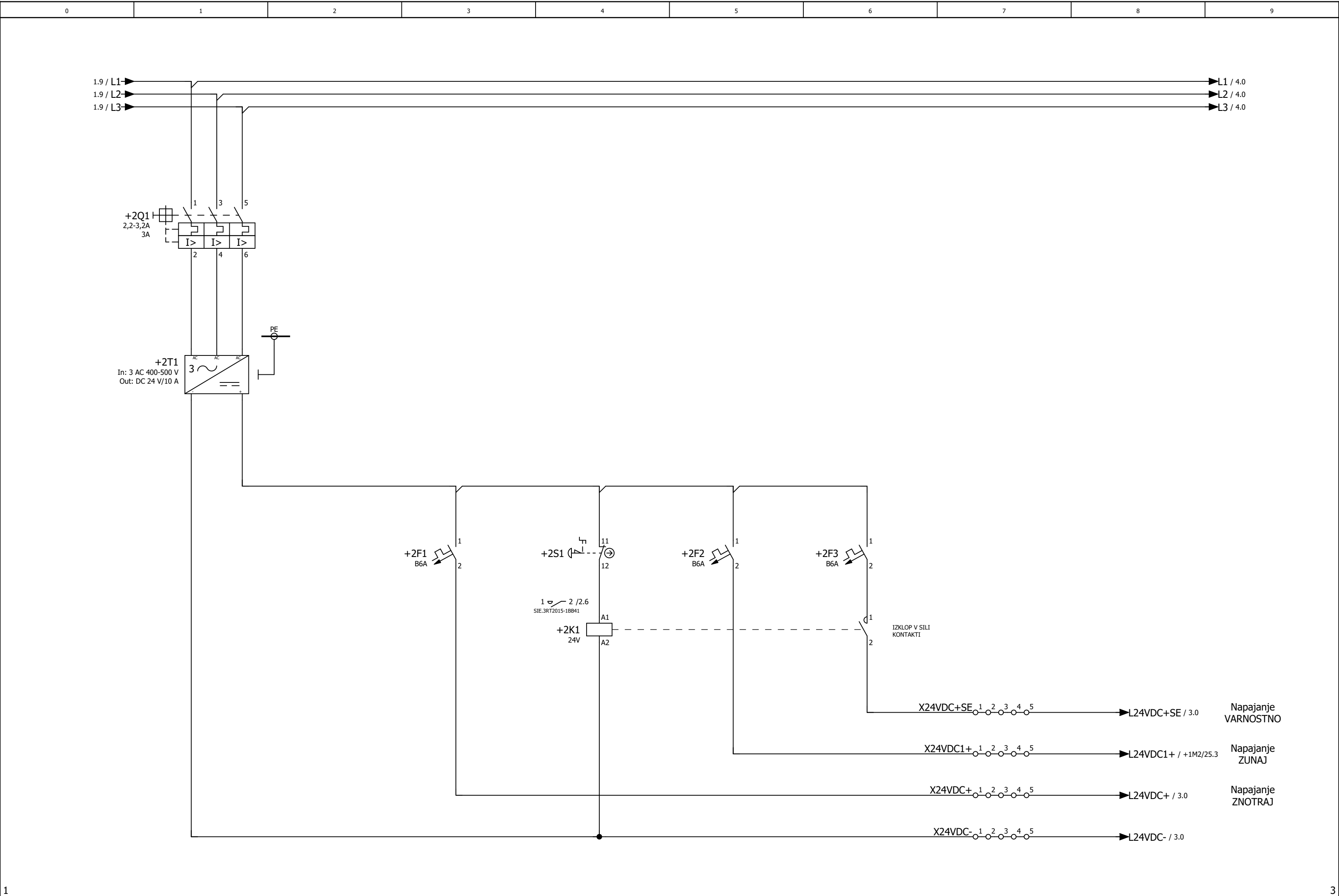
Izdelan	22.5.2018
Spremenjen	23. 05. 2018


Št. strani 26

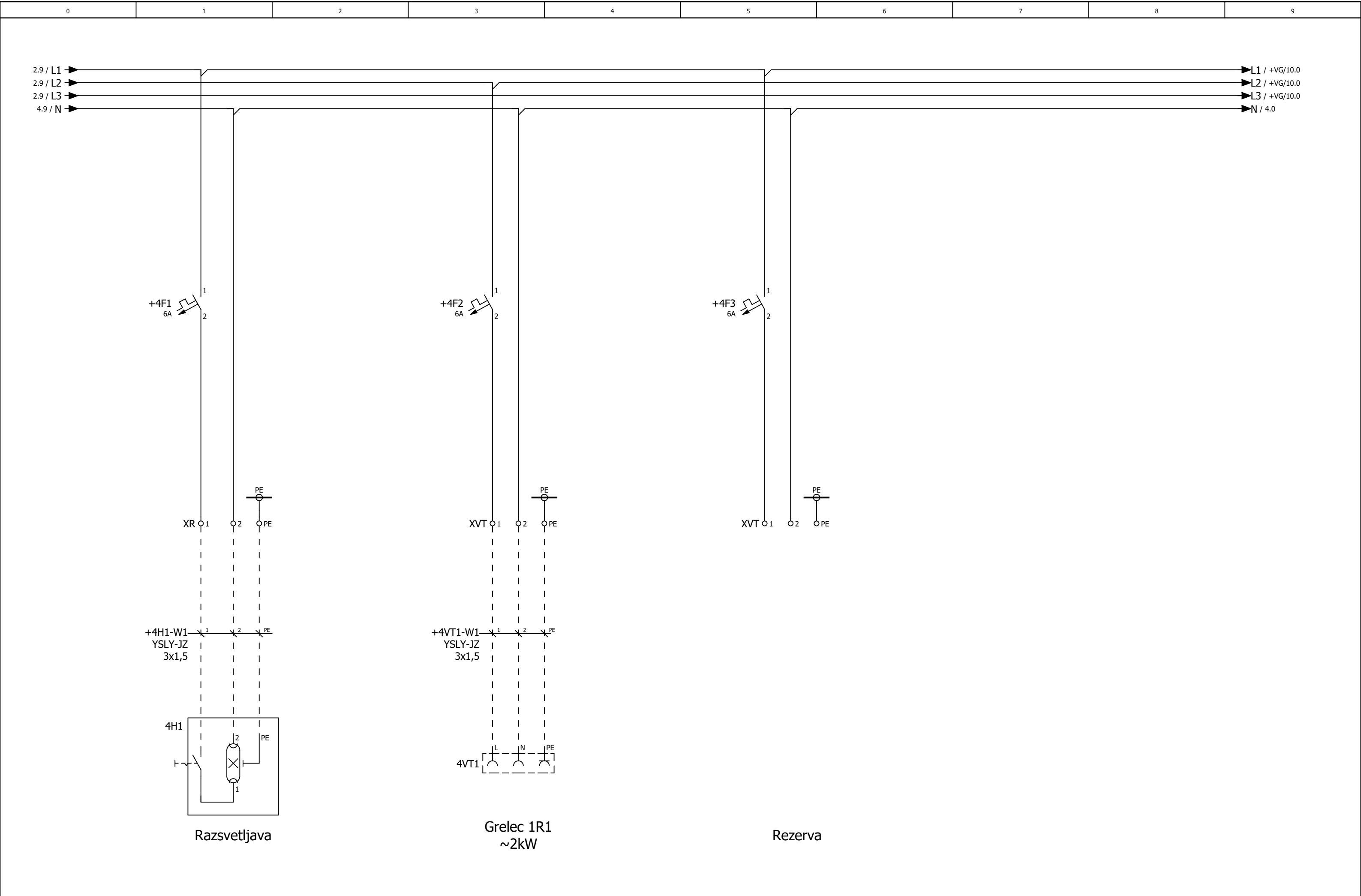
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Sprememba	Datum	Ime	Original					RO-MJ		26

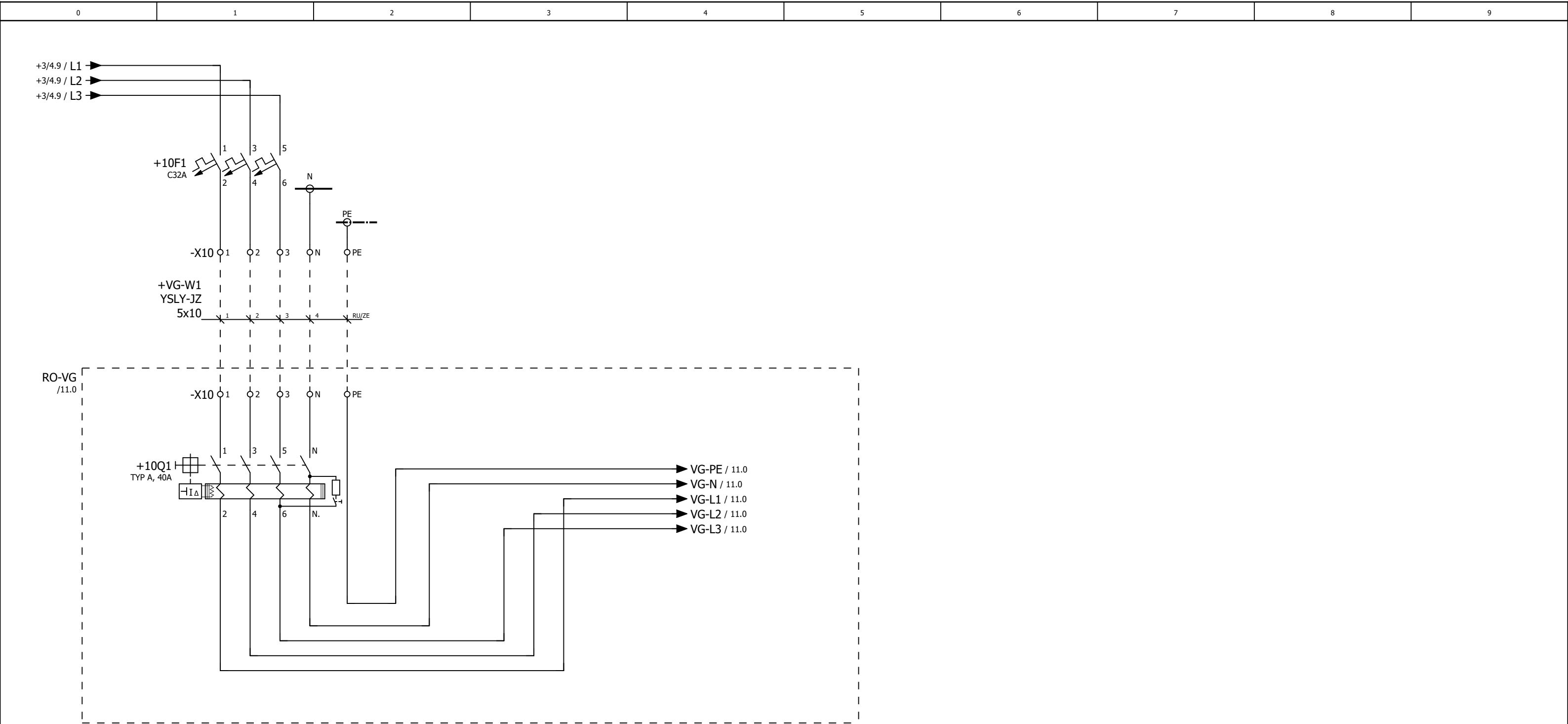
Kazalo strani

Št.	Oznaka strani	Naslov strani	Datum spremembe	Spremenil
1	1	Naslovna stran	23. 05. 2018	ALES
2	1	Kazalo strani	23. 05. 2018	ALES
3	1	Tabela porabnikov	23. 05. 2018	ALES
4	1	Tabela senzorjev	23. 05. 2018	ALES
1	3	Dovod energije	23. 05. 2018	ALES
2	3	Napajanje 24VDC	23. 05. 2018	ALES
3	3	Napajanje PLC	23. 05. 2018	ALES
4	3	Razsvetljava, vtičnice	23. 05. 2018	ALES
10	VG	Napajanje vtičnega gnezda	23. 05. 2018	ALES
11	VG	Vtičnice vtičnega gnezda	23. 05. 2018	ALES
20	1P1	Črpalka 1	23. 05. 2018	ALES
21	1P2	Črpalka 2	23. 05. 2018	ALES
22	1P3	Črpalka 3	23. 05. 2018	ALES
23	1M1	Ventilator	23. 05. 2018	ALES
25	1M2	Motorna loputa	23. 05. 2018	ALES
30	DI	Digitalni vhodi	23. 05. 2018	ALES
50	AI	Merilniki pretoka vode	23. 05. 2018	ALES
51	AI	Meritev temperature, pH	23. 05. 2018	ALES
100	PLC	PLC Pregled	23. 05. 2018	ALES
101	PLC	PLC Pregled	23. 05. 2018	ALES
102	PLC	PLC Pregled	23. 05. 2018	ALES
200	1000	Izgled razdelilnika	23. 05. 2018	ALES
201	1000	Legenda razdelilnika	23. 05. 2018	ALES
202	1000	Legenda razdelilnika	23. 05. 2018	ALES
210	1000	Legenda Vtičnega gnezda	23. 05. 2018	ALES
300	2000	Spisek kablov	23. 05. 2018	ALES

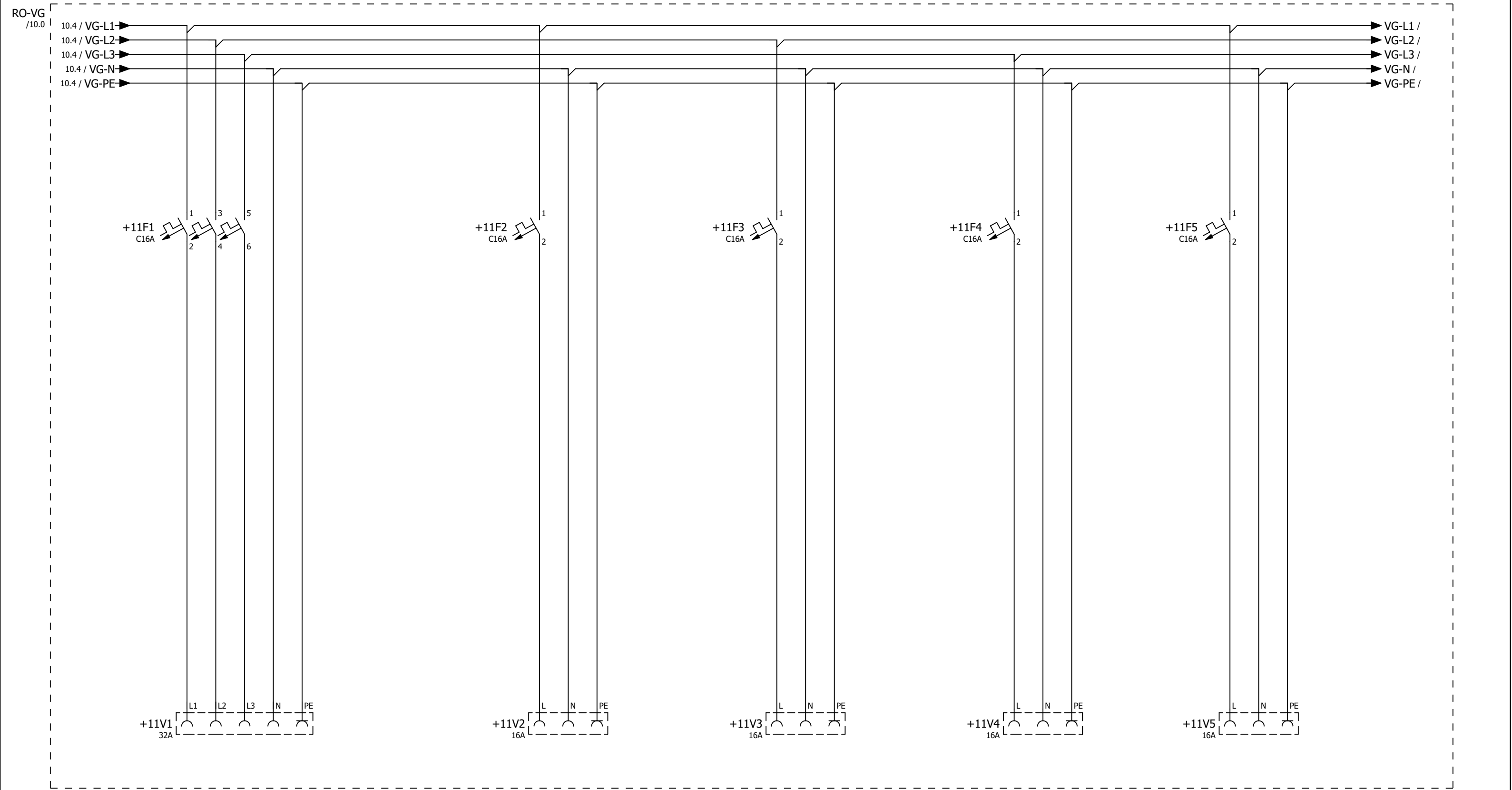


1										3									
			Datum	23. 05. 2018	Splošna bolnišnica Dr. Franca Derganca			DAMA engineering d.o.o.		3	Napajanje 24VDC	P1842601		= RO-MJ					
			Spremenil	ALES										+ 3					
			Odobril									Merski jez							
Sprememba	Datum	Ime	Original									RO-MJ			2				
																26			





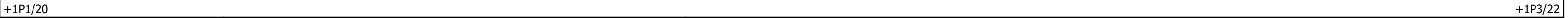
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			Odobril		Merski jez		Napajanje vtičnega gnezda	RO-MJ		10
Sprememba	Datum	Ime	Original							26



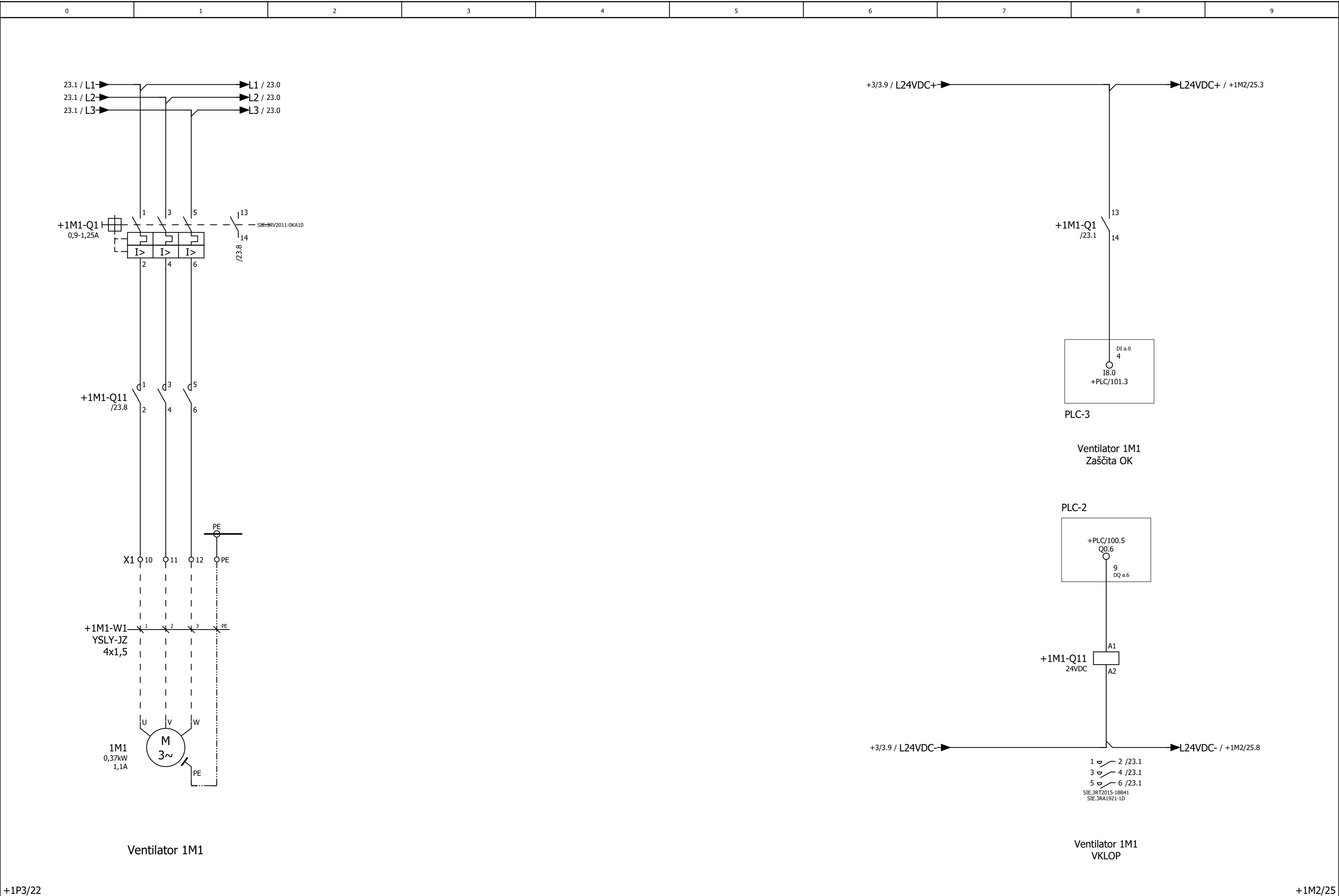


Softstarted 1P3
VKLOP

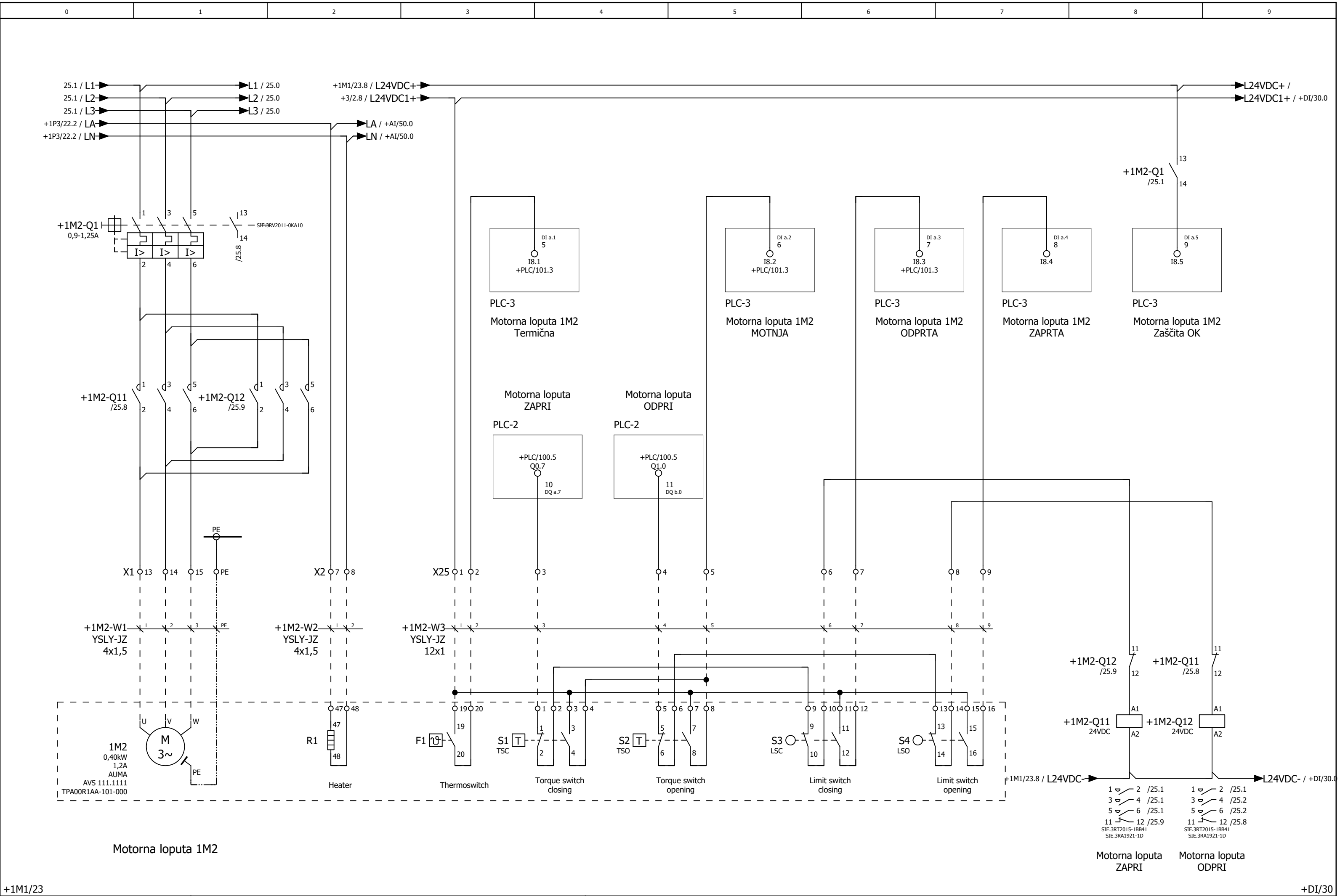
Črpalka 1P2
VKLOP

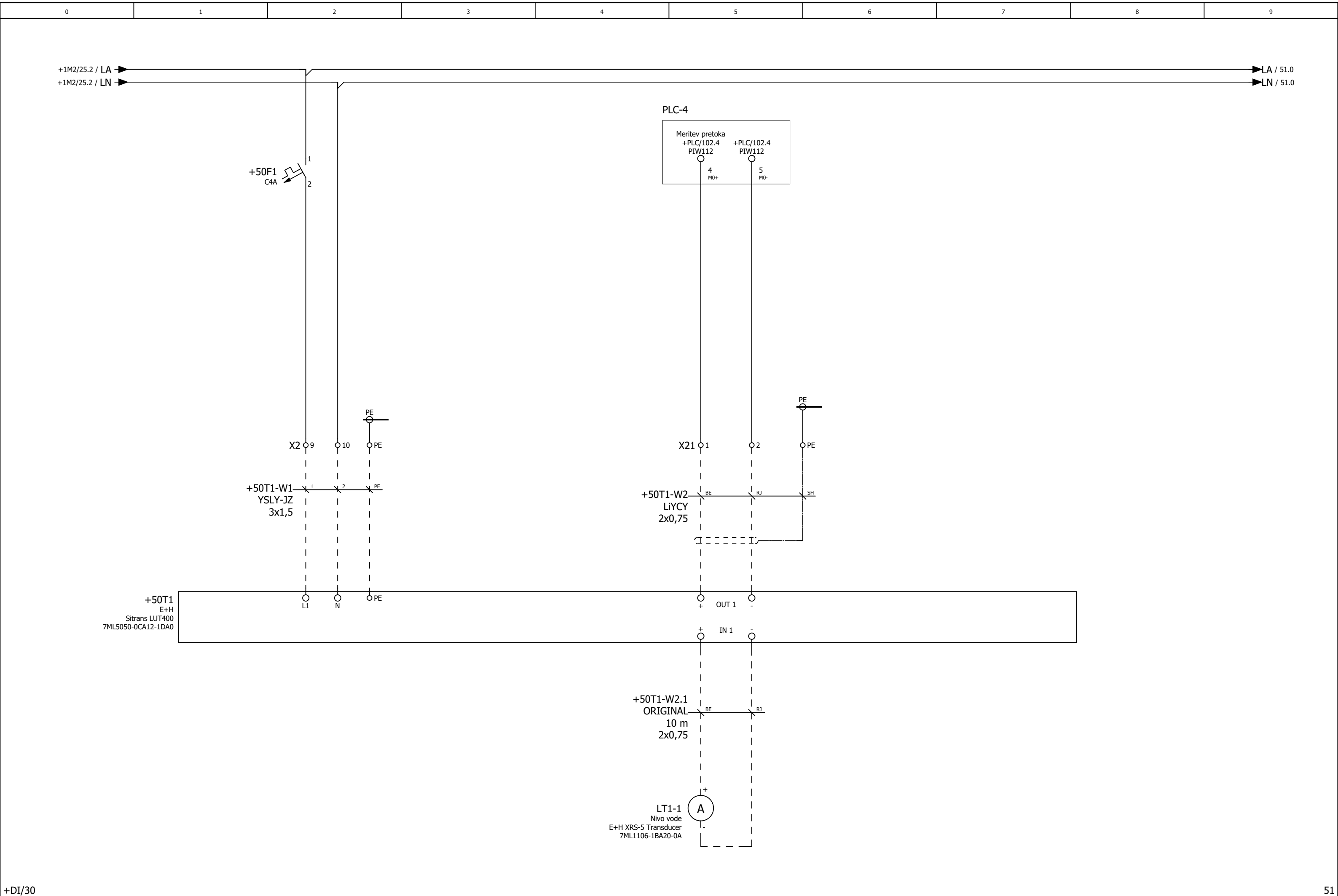



+1P1/20	+1P3/22
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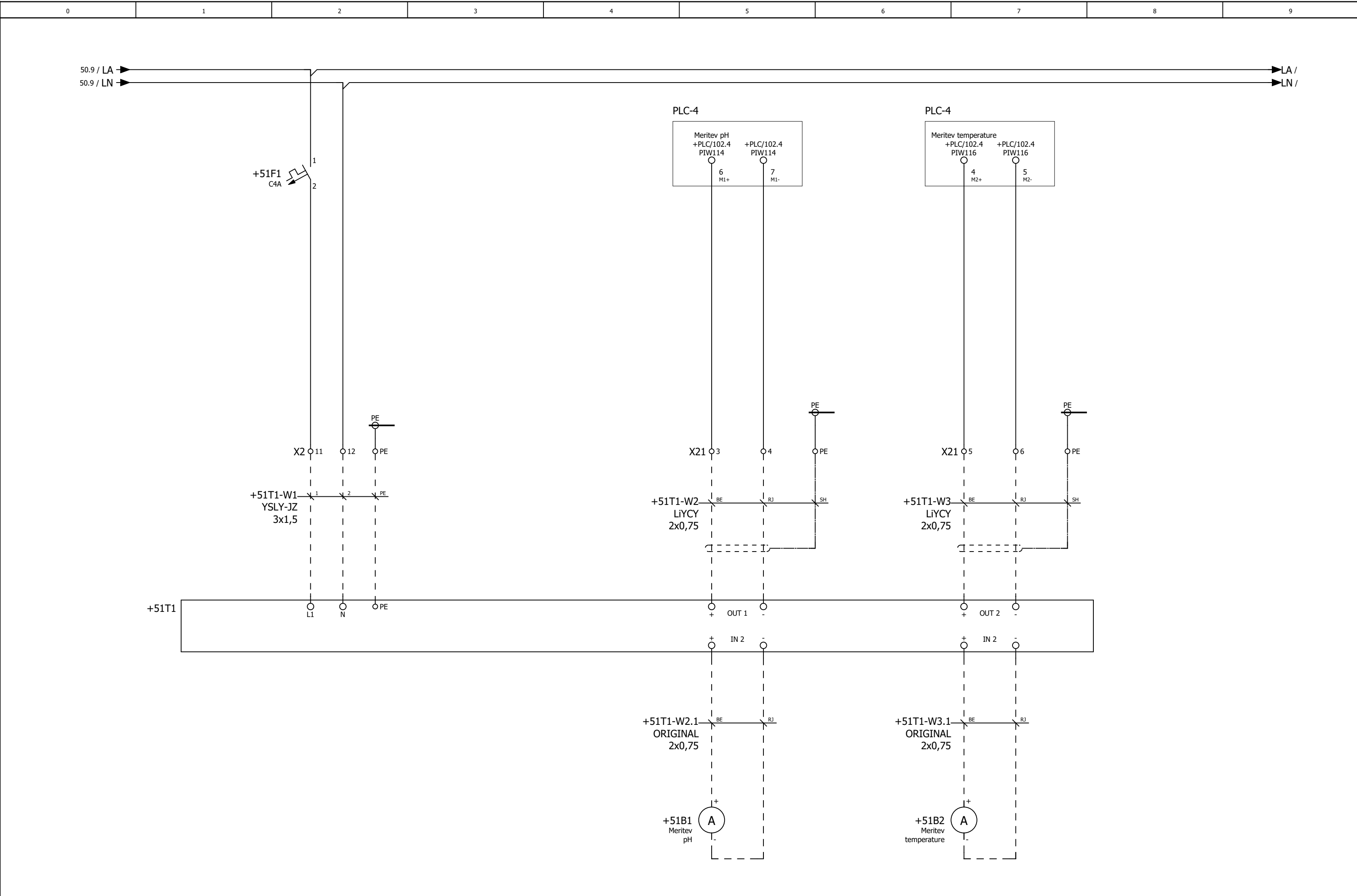


			Datum	23. 05. 2018	Splošna bolnišnica Dr. Franca Derganca	DAMA engineering d.o.o.	1M1 Ventilator	P1842601	= RO-MJ	
			Spremenil	ALES					+ 1M1	
			Odobril							
Sprememba	Datum	Ime	Original					RO-MJ		23
										26





			Datum	23. 05. 2018	Splošna bolnišnica Dr. Franca Derganca	DAMA engineering d.o.o.	AI	Merilniki pretoka vode	P1842601	= RO-MJ	
			Spremenil	ALES						+ AI	
			Odobril								50
Sprememba	Datum	Ime	Original						RO-MJ		26



			Datum	23. 05. 2018	Splošna bolnišnica Dr. Franca Derganca			AI	Meritev temperature, pH	P1842601	= RO-MJ					
			Spremenil	ALES							+ AI					
			Odobril								Merski jez					
Sprememba	Datum	Ime	Original										RO-MJ		51	
													26			

PLC-2
+3/3.0
SIE.6ES7214-1AG40-0XB0

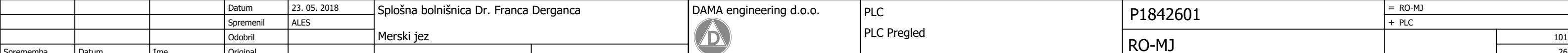
S7-1200
CPU 1214C DC/DC/DC

SIEMENS

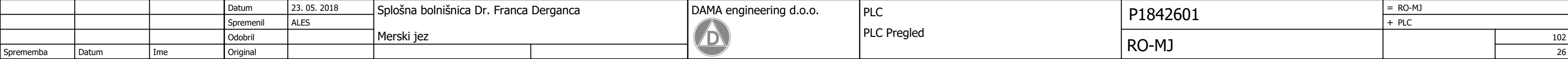
The diagram illustrates the wiring for a Siemens S7-1200 CPU 1214C DC/DC/DC. It includes a terminal block with 20 digital input (DI) and 12 digital output (DO) points. The inputs are connected to various sensors and switches, while the outputs are connected to actuators and feedback signals. The diagram also shows the internal logic of the PLC, including a power supply section, a digital input section, and a digital output section. The power supply section shows a 24V DC supply connected to the PLC's power terminals. The digital input section shows the connection of various sensors to the PLC's DI terminals. The digital output section shows the connection of various actuators to the PLC's DO terminals. The diagram is divided into three main sections: a terminal block section, an internal logic section, and an output section. The terminal block section shows the physical connections to the PLC's terminals. The internal logic section shows the internal wiring and logic of the PLC. The output section shows the connection of the PLC's outputs to the external devices.

Signal	PLC Address	Terminal	DI/DO	Internal Logic	Output
Alarm Črpaka 1P1 Zates./DI	+1P1-T1:9DI	+1P1/20.5	DI a.0	Q0.0	+1P1-Q22:1
Alarm Črpalka 1P1 Tem./TCS	+1P1-T1:8TCS	+1P1/20.6	DI a.1	Q0.1	+1P1-Q11:A1
Softstarter 1P3 Feedback	+1P1-Q1:14	+1P1/20.7	DI a.2	Q0.2	+1P2-Q22:1
Črpalka 1P3 Zaščita OK	+1P1-Q11:14	+1P1/20.8	DI a.3	Q0.3	+1P2-Q11:A1
Alarm Črpaka 1P2 Zates./DI	+1P2-T1:9DI	+1P2/21.5	DI a.4	Q0.4	+1P3-Q22:1
Alarm Črpalka 1P2 Tem./TCS	+1P2-T1:8TCS	+1P2/21.6	DI a.5	Q0.5	+1P3-Q11:A1
Softstarter 1P3 Feedback	+1P2-Q1:14	+1P2/21.7	DI a.6	Q0.6	+1M1-Q11:A1
Črpalka 1P3 Zaščita OK	+1P2-Q11:14	+1P2/21.8	DI a.7	Q0.7	+1M2-Q11:A1
Alarm Črpaka 1P3 Zates./DI	+1P3-T1:9DI	+1P3/22.5	DI b.0	Q1.0	+1M2-Q12:A1
Alarm Črpalka 1P3 Tem./TCS	+1P3-T1:8TCS	+1P3/22.6	DI b.1	Q1.1	
Softstarter 1P3 Feedback	+1P3-Q1:14	+1P3/22.7	DI b.2		
Črpalka 1P3 Zaščita OK	+1P3-Q11:14	+1P3/22.8	DI b.3		
Napajanje 230V OK	+1Q2:14	+3/1.8	DI b.4		
SE napajanje prisotno	-PLC-2:-X12:1	+3/3.8	DI b.5		

6ES7214-1AG40-0XB0

[illegible]

101		+1000/200
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Pregled materiala


F18_001_MULTILANG_AC

Številka	Oznaka elmeneta	Tip elemeneta	Opis elementa	Proizvajalec	Funkcijski opis
1	1X1	SV 9342.210	Busbar connection adaptor (3-pole) 63A	Rittal	
2	Q1	3RV2011-1EA10	CIRCUIT-BREAKER SZ 500, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 2.8...4A, N-RELEASE 52A, SCREW CONNECTION, STANDARD SW. CAPACITY	Siemens AG	
3	Q11	3RT2015-1BB41	CONTACTOR, AC-3, 3KW/400V, 1NO, DC 24V, 3-POLE, SZ 500 SCREW TERMINAL	Siemens AG	Črpalka 1P3
4	Q22	3RW3013-1BB04	SIRIUS SOFT STARTER, SIZE 500, 3.6A, 1.5KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SCREW TERMINALS	Siemens AG	
5	Q1	3RV2011-1EA10	CIRCUIT-BREAKER SZ 500, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 2.8...4A, N-RELEASE 52A, SCREW CONNECTION, STANDARD SW. CAPACITY	Siemens AG	
6	Q11	3RT2015-1BB41	CONTACTOR, AC-3, 3KW/400V, 1NO, DC 24V, 3-POLE, SZ 500 SCREW TERMINAL	Siemens AG	Črpalka 1P3
7	Q22	3RW3013-1BB04	SIRIUS SOFT STARTER, SIZE 500, 3.6A, 1.5KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SCREW TERMINALS	Siemens AG	
8	Q1	3RV2011-1EA10	CIRCUIT-BREAKER SZ 500, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 2.8...4A, N-RELEASE 52A, SCREW CONNECTION, STANDARD SW. CAPACITY	Siemens AG	
9	Q11	3RT2015-1BB41	CONTACTOR, AC-3, 3KW/400V, 1NO, DC 24V, 3-POLE, SZ 500 SCREW TERMINAL	Siemens AG	Črpalka 1P3
10	Q22	3RW3013-1BB04	SIRIUS SOFT STARTER, SIZE 500, 3.6A, 1.5KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SCREW TERMINALS	Siemens AG	
11		6EP1434-2BA10	SITOP PSU300S 24 V/10 A STABILIZED POWER SUPPLY INPUT: 3 400-500 V AC OUTPUT: 24 V/10 A DC	Siemens AG	
12	Q1	3RV2011-0KA10	CIRCUIT-BREAKER SZ 500, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.9...1.25A, N-RELEASE16A, SCREW CONNECTION, STANDARD SW. CAPACITY	Siemens AG	
13	Q11	3RT2015-1BB41	CONTACTOR, AC-3, 3KW/400V, 1NO, DC 24V, 3-POLE, SZ 500 SCREW TERMINAL	Siemens AG	Ventilator 1M1
14	Q1	3RV2011-0KA10	CIRCUIT-BREAKER SZ 500, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.9...1.25A, N-RELEASE16A, SCREW CONNECTION, STANDARD SW. CAPACITY	Siemens AG	
15	Q11	3RT2015-1BB41	CONTACTOR, AC-3, 3KW/400V, 1NO, DC 24V, 3-POLE, SZ 500 SCREW TERMINAL	Siemens AG	Motorna loputa
16	Q12	3RT2015-1BB41	CONTACTOR, AC-3, 3KW/400V, 1NO, DC 24V, 3-POLE, SZ 500 SCREW TERMINAL	Siemens AG	Motorna loputa
17		4AM4842-5AT10-0FA0	TRANSFORMER SITAS, PHASES:1, PN/PN(S6)(KVA):0,5 /2, UPRI(V):400+/-5%, USEC(V):230, ISEC(A):2,17, F(HZ):50...60, VECTOR GR./SHIELD WNG.:II0 /0, TA/ISOKL:40	Siemens AG	
18		5SL6102-7	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 2A	Siemens AG	
19		3RV2011-1CA10	CIRCUIT-BREAKER SZ 500, FOR MOTOR PROTECTION, CLASS 10, A-REL.1.8...2.5A, N-RELEASE 33A, SCREW CONNECTION, STANDARD SW. CAPACITY	Siemens AG	
20		5SL6332-7	CIRCUIT BREAKER 400V 6KA, 3POLE, C, 32A	Siemens AG	
21		3RV2011-1DA10	CIRCUIT-BREAKER SZ 500, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-RELEASE 42A, SCREW CONNECTION, STANDARD SW. CAPACITY	Siemens AG	
22		5SL6106-6	CIRCUIT BREAKER 230/400V 6KA, 1POLE, B, 6A	Siemens AG	
23		3SB3601-1HA20	22MM METAL ROUND COMPLETE UNIT COMBINATION: EMERGEN.-STOP MUSHR.PUSHB. 40MM LATCH.W. ROT.-TO-UNLATCH MECH. WITH YELLOW BACKING PLATE	Siemens AG	SWITCH
24		5SL6106-6	CIRCUIT BREAKER 230/400V 6KA, 1POLE, B, 6A	Siemens AG	
25		5SL6106-6	CIRCUIT BREAKER 230/400V 6KA, 1POLE, B, 6A	Siemens AG	
26		3RT2015-1BB41	CONTACTOR, AC-3, 3KW/400V, 1NO, DC 24V, 3-POLE, SZ 500 SCREW TERMINAL	Siemens AG	
27		5SL6104-6	CIRCUIT BREAKER 230/400V 6KA, 1POLE, B, 4A	Siemens AG	
28	1E1	SZ.2500.200	Led light with switch 11W/100-240V with socket	Rittal	SWITCHBOARD LIGHT
29	PLC-2	6ES7214-1AG40-0XB0	SIMATIC S7-1200, CPU 1214C, COMPACT CPU, DC/DC/DC, ONBOARD I/O: 14 DI 24V DC	Siemens AG	
30	PLC-4	6ES7231-4HD32-0XB0	SIMATIC S7-1200, ANALOG INPUT, SM 1231, 4AI, +/-10V, +/-5V, +/-2.5V, OR 0-20 MA 12 BIT + SIGN BIT (13 BIT ADC)	Siemens AG	
31	X0				
32	X10				
33	X11				
34	X20				
35	X21				
36	X24VDC1+				
37	X24VDC+				
38	X24VDC+SE				
39	X24VDC-				
40	X25				
41	X1				
42	X100				
43	X2				
44	XR				
45	XVT				
46	TP1	6AV2124-2DC01-0AX0	SIMATIC HMI KTP400 COMFORT	Siemens AG	
47		3LD2504-0TK53	3LD switch disconnecter	Siemens AG	
48		5SL6106-7	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 6A	Siemens AG	
49		5SL6106-7	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 6A	Siemens AG	
50		5SL6106-7	CIRCUIT BREAKER 230/400V 6KA, 1POLE, C, 6A	Siemens AG	
51	PLC-3	6ES7221-1BH32-0XB0	SIMATIC S7-1200, DIGITAL INPUT SM 1221, 16DI, 24V DC, SINK/SOURCE INPUT	Siemens AG	
52	T1	MT78750	Socket for change over contacts	Schrack	
53	T1	MT78750	Socket for change over contacts	Schrack	
54	T1	MT78750	Socket for change over contacts	Schrack	
55		SE.5852580	System enclosures SE 8 IP 66/NEMA 4X, whd 800x1800x500 mm	Rittal	
56		TS.8701800	Base/plinth components of stainless steel, front and rear WxH 800x100 mm	Rittal	
57		TS.8701800	Base/plinth components of stainless steel, front and rear WxH 800x100 mm	Rittal	

Pregled materiala

F18_001_MULTILANG_AC


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			Datum	23. 05. 2018	Splošna bolnišnica Dr. Franca Derganca		DAMA engineering d.o.o.	1000	Legenda razdelilnika	P1842601	= RO-MJ	
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			Odobril							Merski jez		RO-MJ
Sprememba	Datum	Ime	Original								26	

Pregled materiala

F18_001_MULTILANG_AC

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			Datum	23. 05. 2018	Splošna bolnišnica Dr. Franca Derganca		DAMA engineering d.o.o.		1000 Legenda Vtičnega gnezda	P1842601	= RO-MJ	
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Spremembra	Datum	Ime	Original							RO-MJ		210 26

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Spisek kablov

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