

VODOCRPALIŠTE VOČIN-SOBUNAR

PLC ormar = Rplc

Instalisana snaga: Pins=1kW
 Jednovremena el. snaga: Pk= 0,9kW
 Cos fi: cos fi=0,85

Sustav uzemljenja:	TN-C-S
Zaštita od strujnog udara:	Zaštita od indirektnog dodira sa automatskim isključenjem snage
Zaštitna oprema:	Uređaj za prekostrujno zaštitu
Mehanička zaštita:	IP min 43 (54)

Tehnološke oznake - sustav označavanja

= nn aann -ann

El. oznaka uređaja - pogona
Redni br. uređaja
Oznaka uređaja
Oznaka serije

Boje žila

Trofazni sistem 400V:	CRNA
Upravljanje 230V:	ŽUTA
Upravljanje 24V:	CRVENA
Neutralna žila 230VAC:	SVETLO PLAVA
Neutralna žila-24VDC:	PLAVA

Redne stezaljke

- X1 = Napon trifaznih potrošača
- X2 = Napon jednofaznih potrošača
- X2k = Upravljanje 230V AC
- X9 = Priključak kontrolnih signala 24VDC
- X10 = Priključak mernih signala

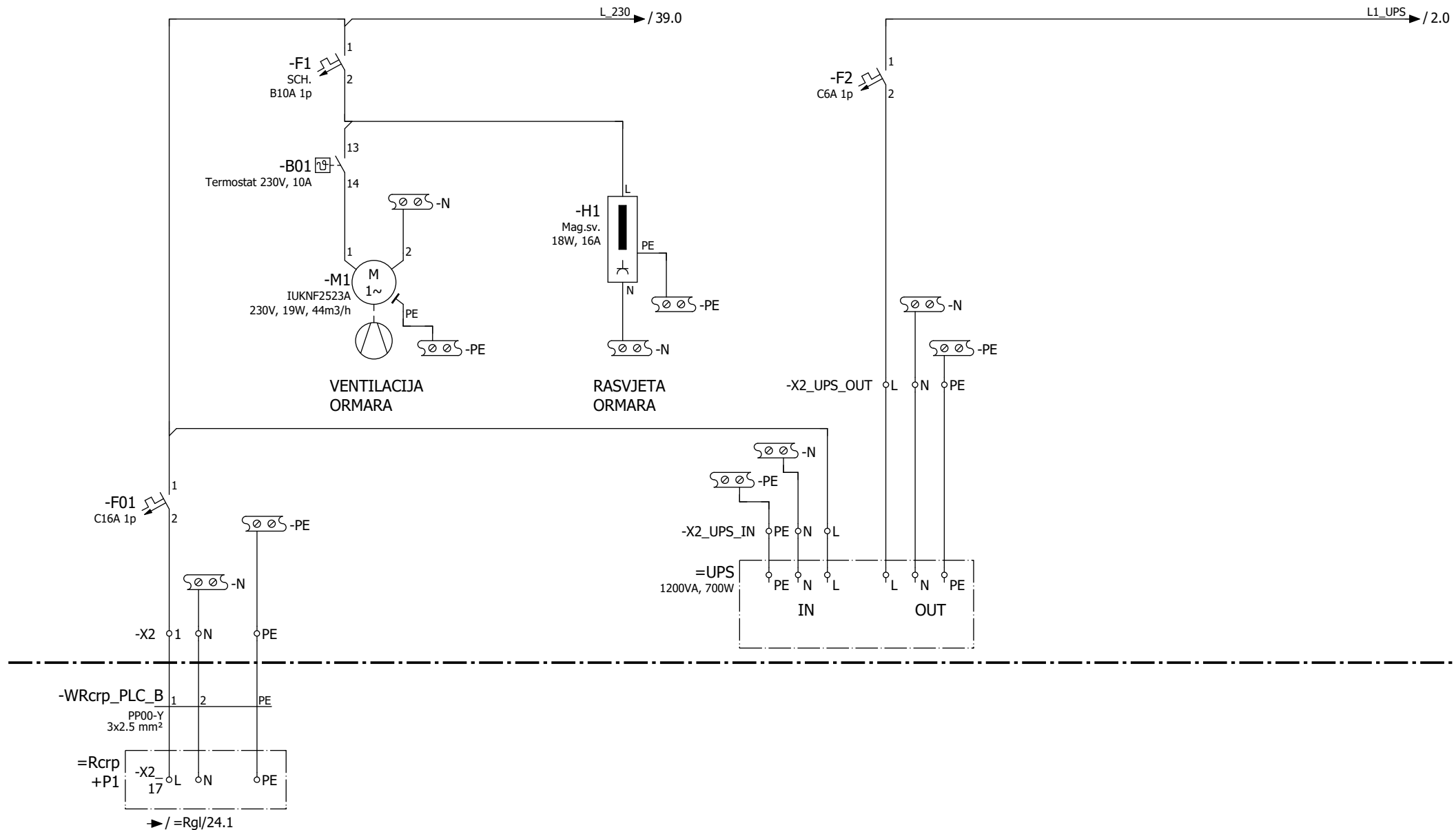
Označavanje kablova

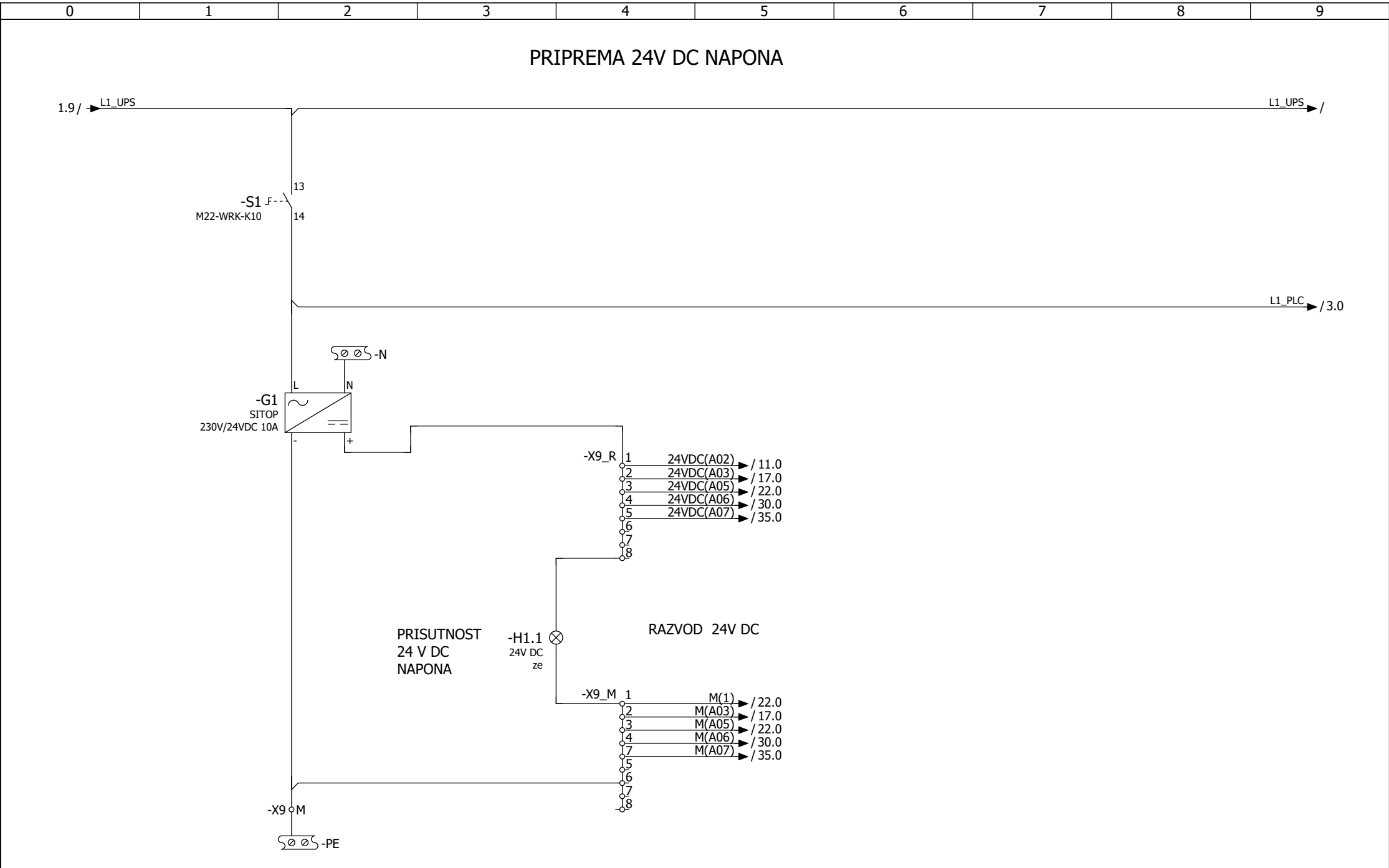
-WnnnB

- B Napojni kabel
- H Upravljački kabel
- N Signalni kabel
- P Mjerni kabel

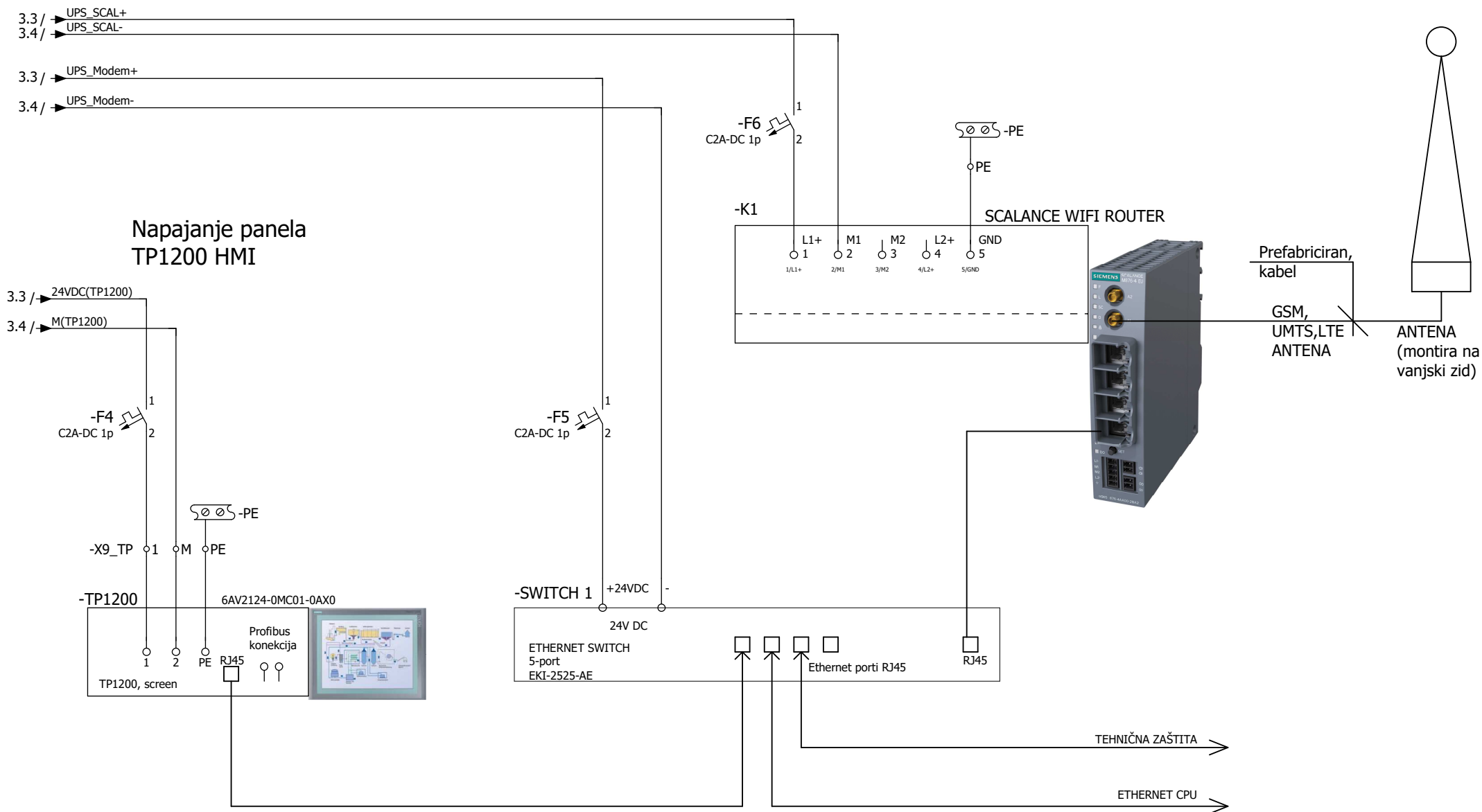
Tehnološka oznaka sklopa

Dovod iz =Rgl

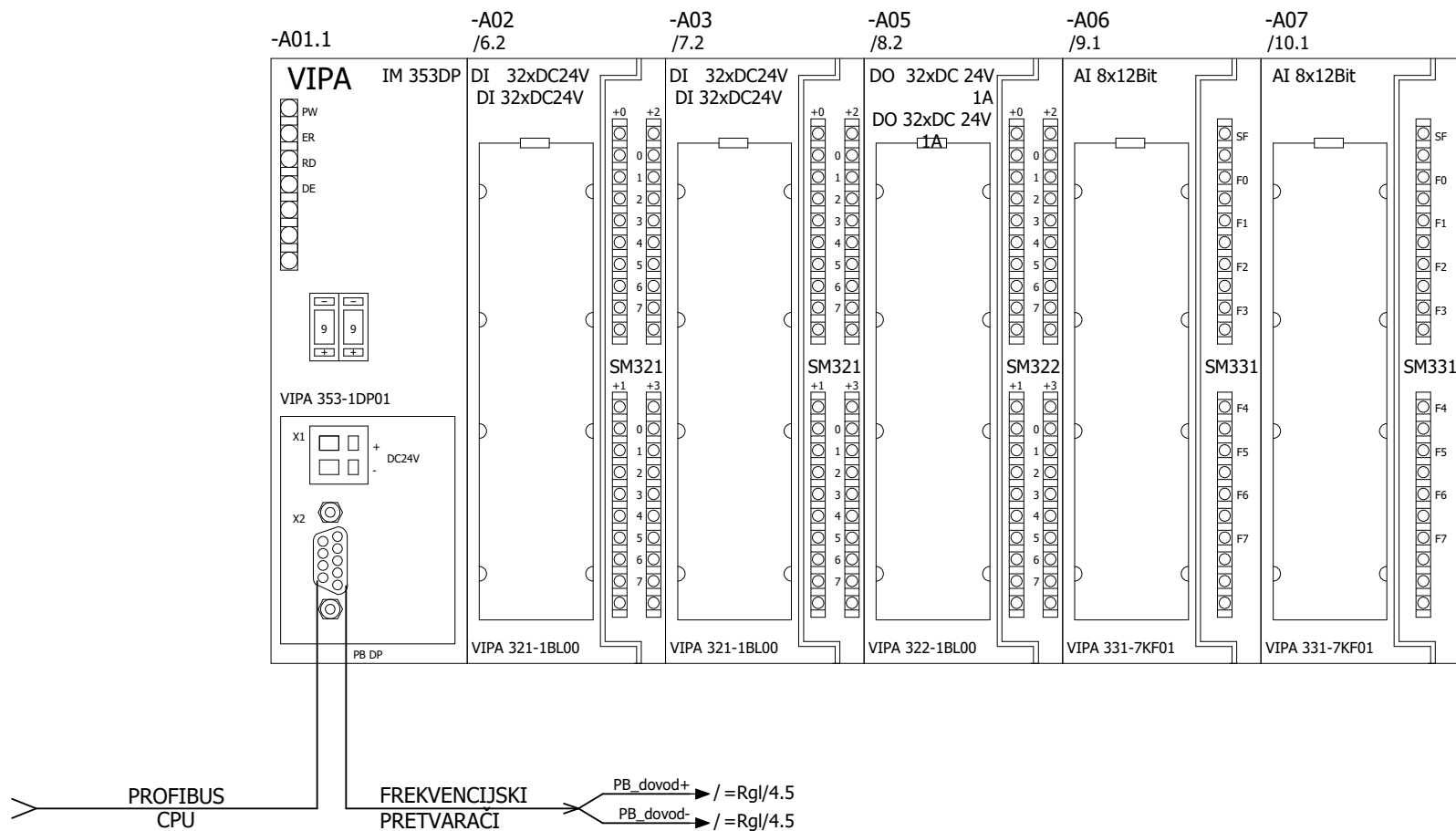


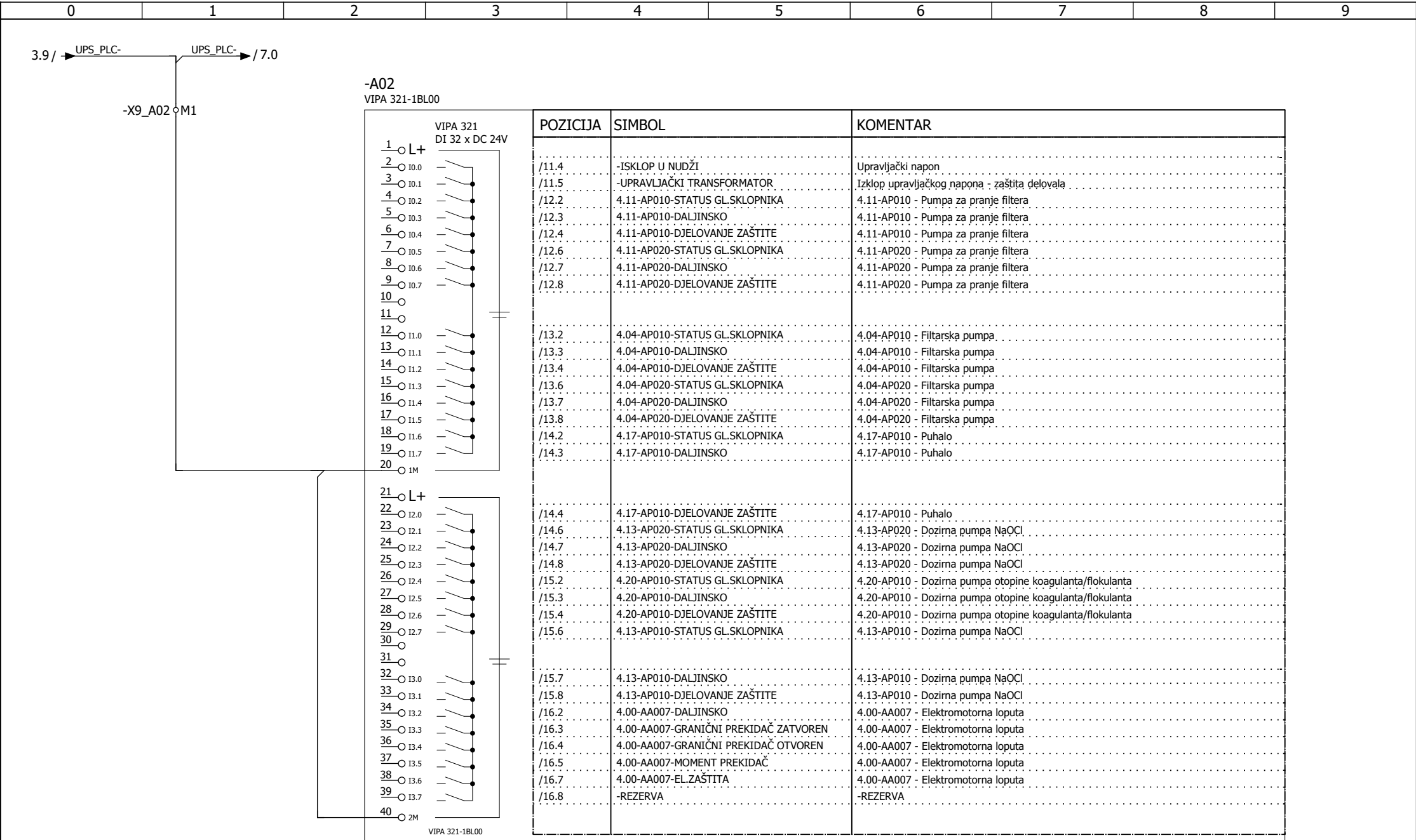


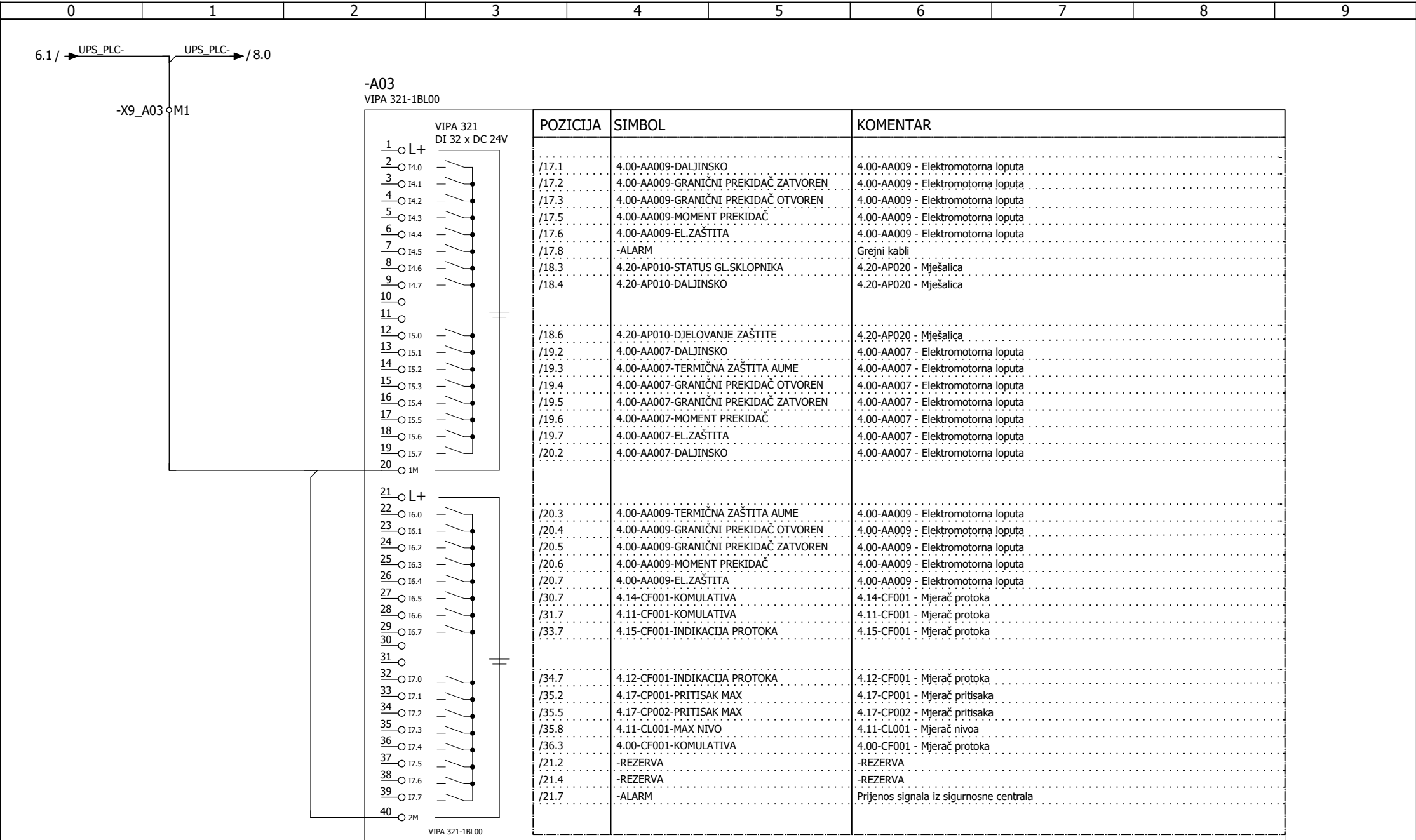
TELEKOMUNIKACIJSKA OPREMA U UPRAVLJAČKEM ORMARU

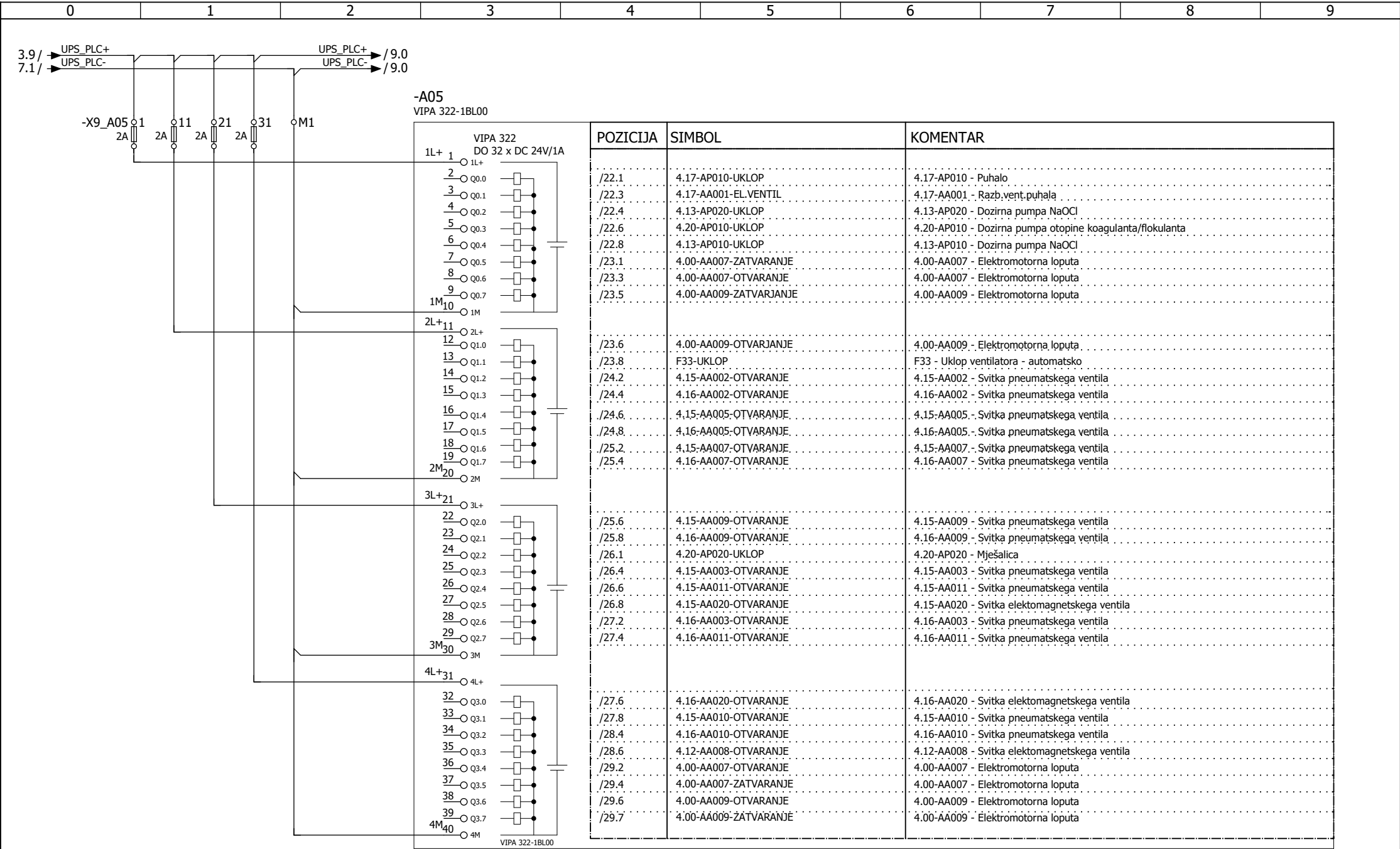


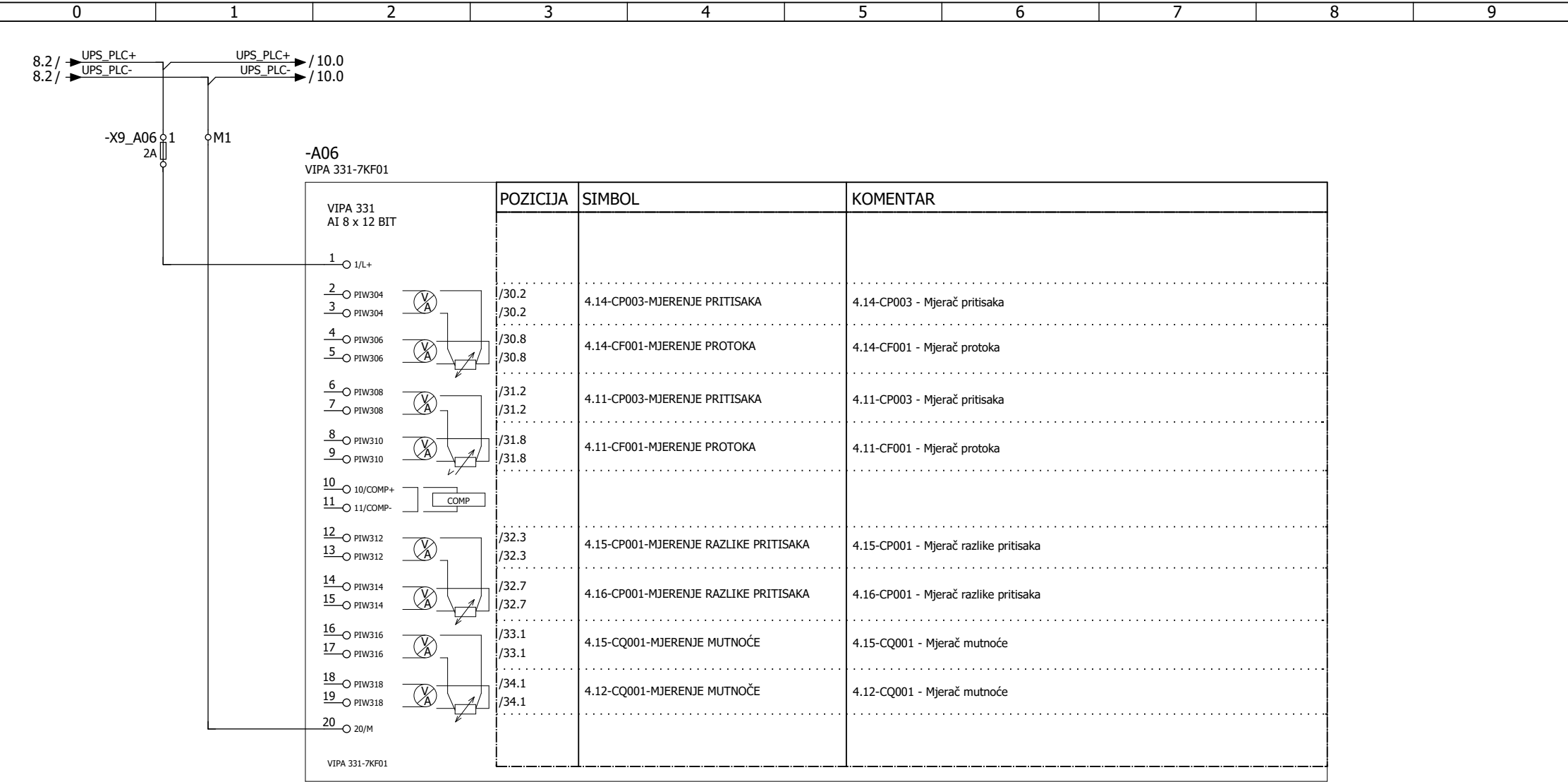
IZGLED MODULA

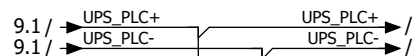








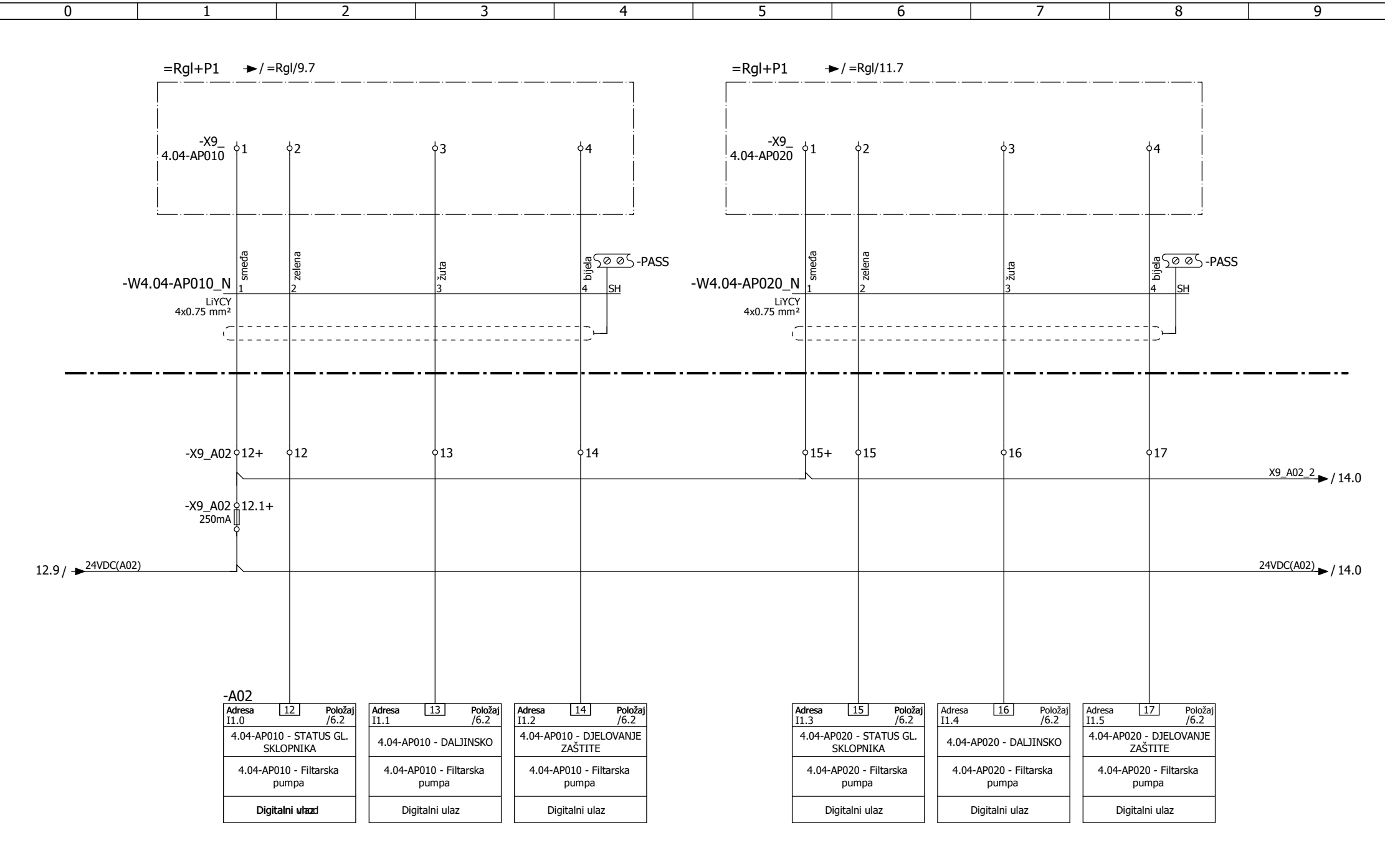


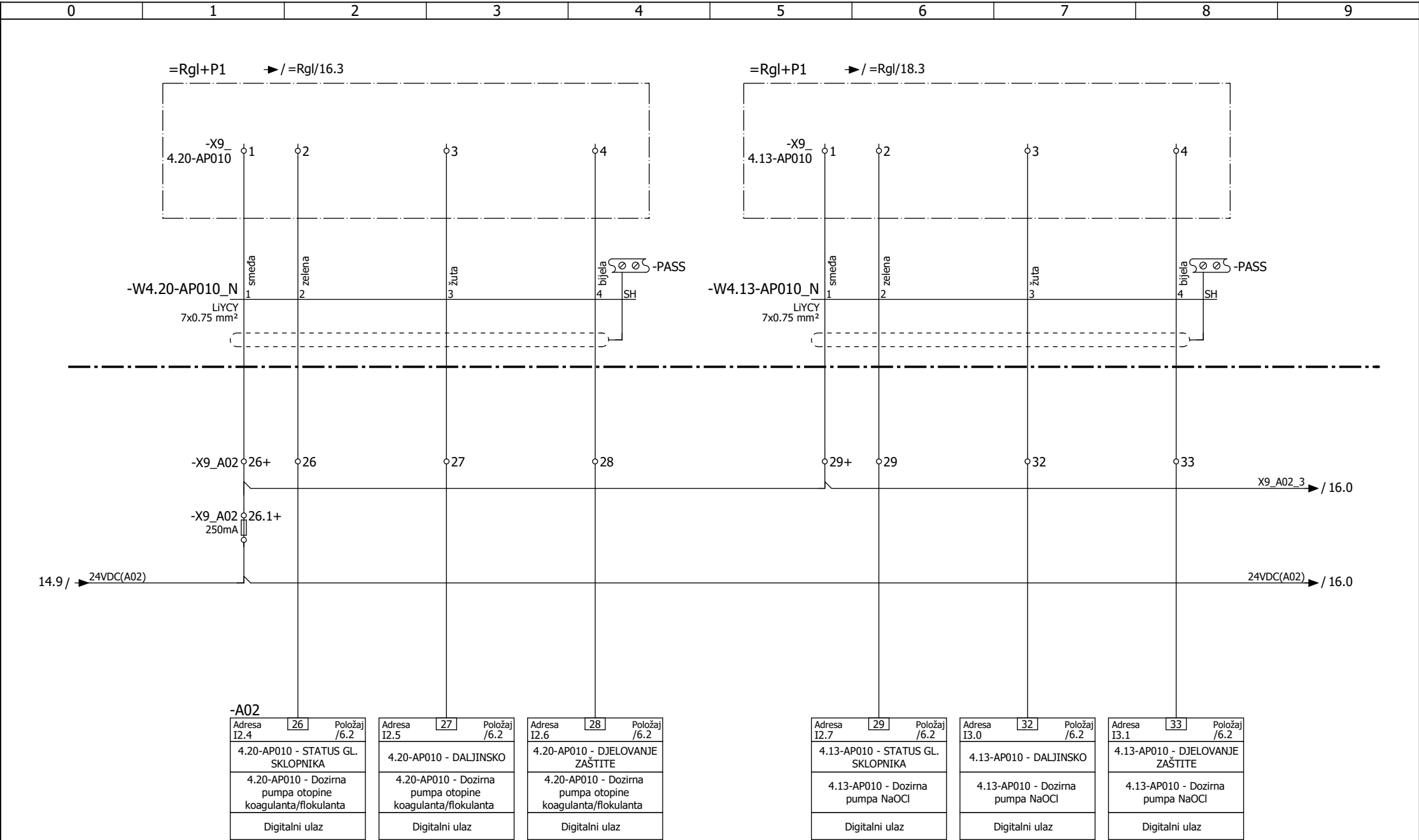


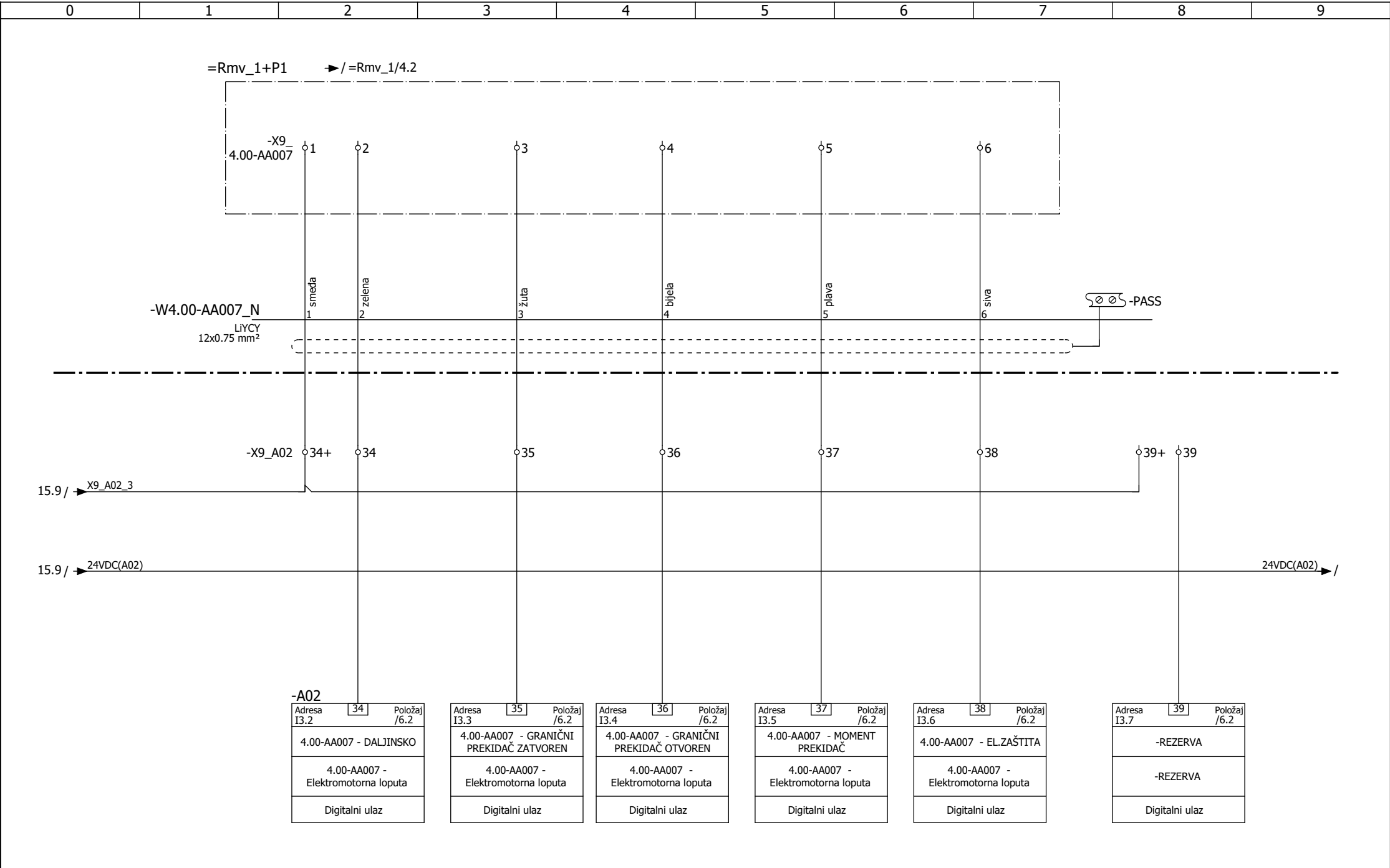
-X9_A07 1
2A

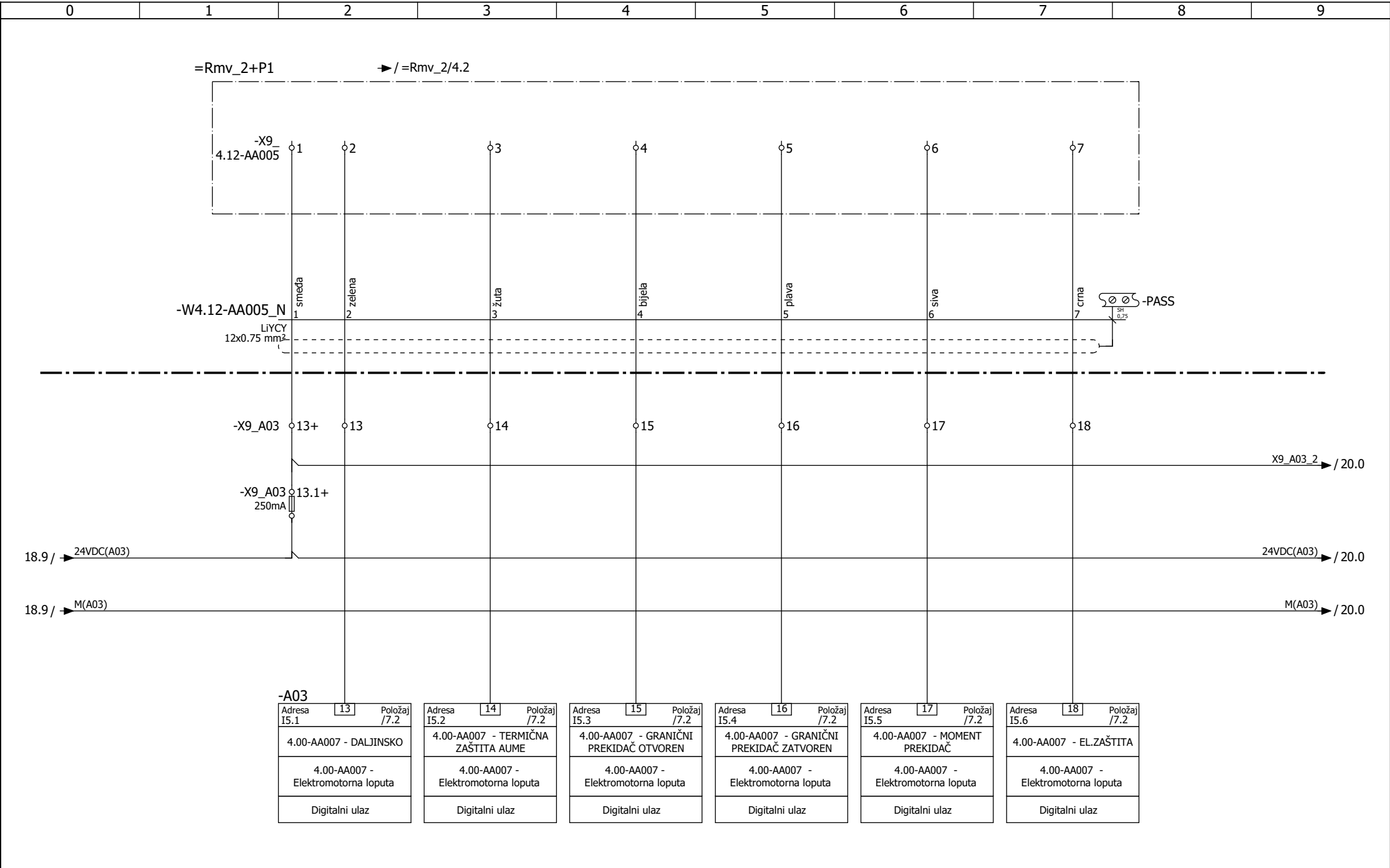
-A07
VIPA 331-7KF01

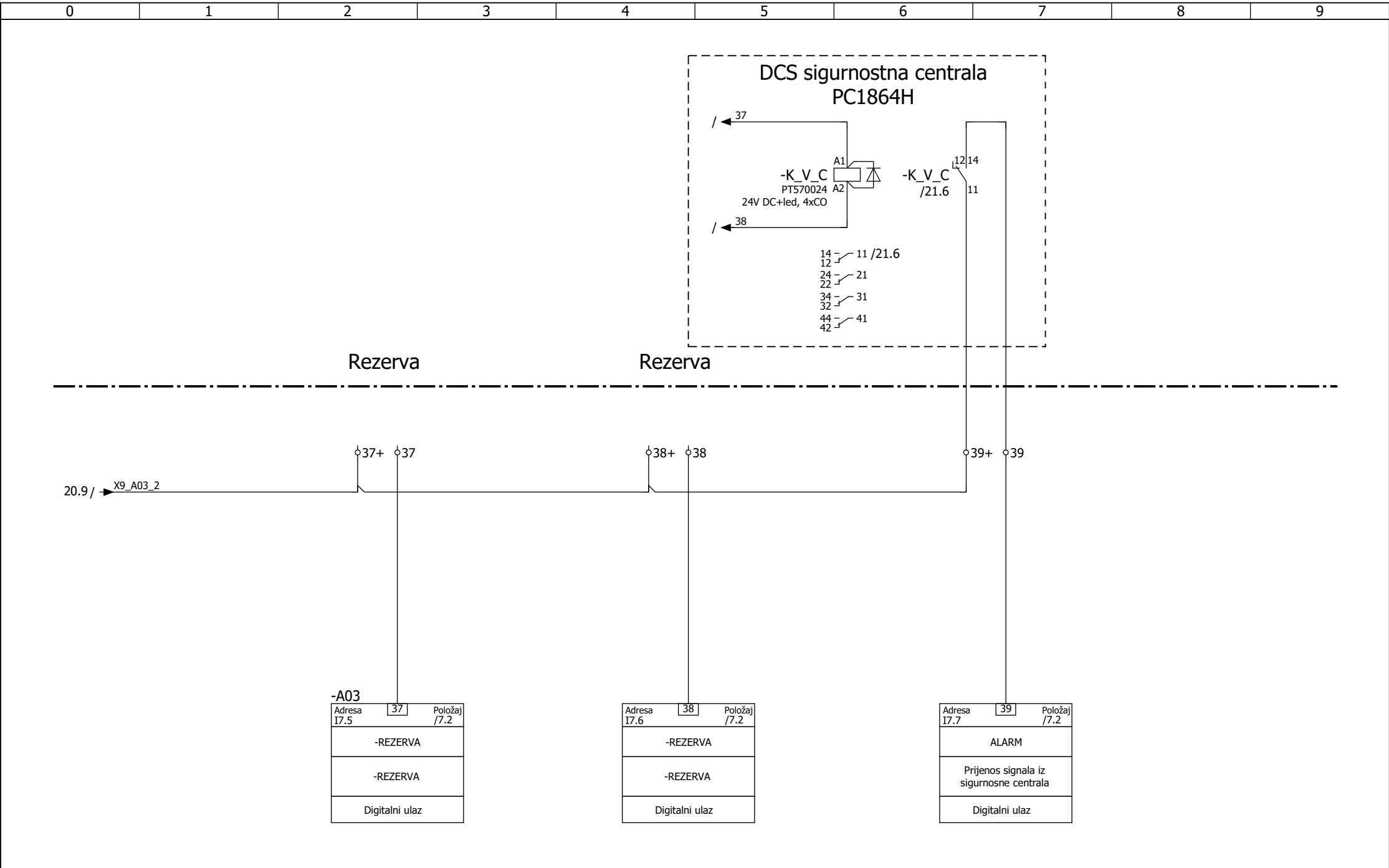
VIPA 331 AI 8 x 12 BIT		POZICIJA	SIMBOL	KOMENTAR
1	1/L+			
2	PIW320	/36.4	4.00-CF001-MJERENJE PROTOKA	4.00-CF001 - Mjerač protoka
3	PIW320	/36.4		
4	PIW322	/36.7	4.00-CL001-MJERENJE NIVOVA	4.00-CL001 - Mjerač nivoa
5	PIW322	/36.8		
6	PIW324	/37.1	4.00-CQ001-MJERENJE MUTNOĆE	4.00-CQ001 - Mjerač mutnoće
7	PIW324	/37.2		
8	PIW326	/37.7	4.10-CL001-MJERENJE NIVOVA	4.10-CL001 - Mjerač nivoa
9	PIW326	/37.7		
10	10/COMP+			
11	11/COMP-			
12	PIW328	/38.2	-REZERVA	REZERVA
13	PIW328	/38.2		
14	PIW330	/38.4	-REZERVA	REZERVA
15	PIW330	/38.4		
16	PIW332	/38.5	-REZERVA	REZERVA
17	PIW332	/38.6		
18	PIW334	/38.7	-REZERVA	REZERVA
19	PIW334	/38.7		
20	20/M			

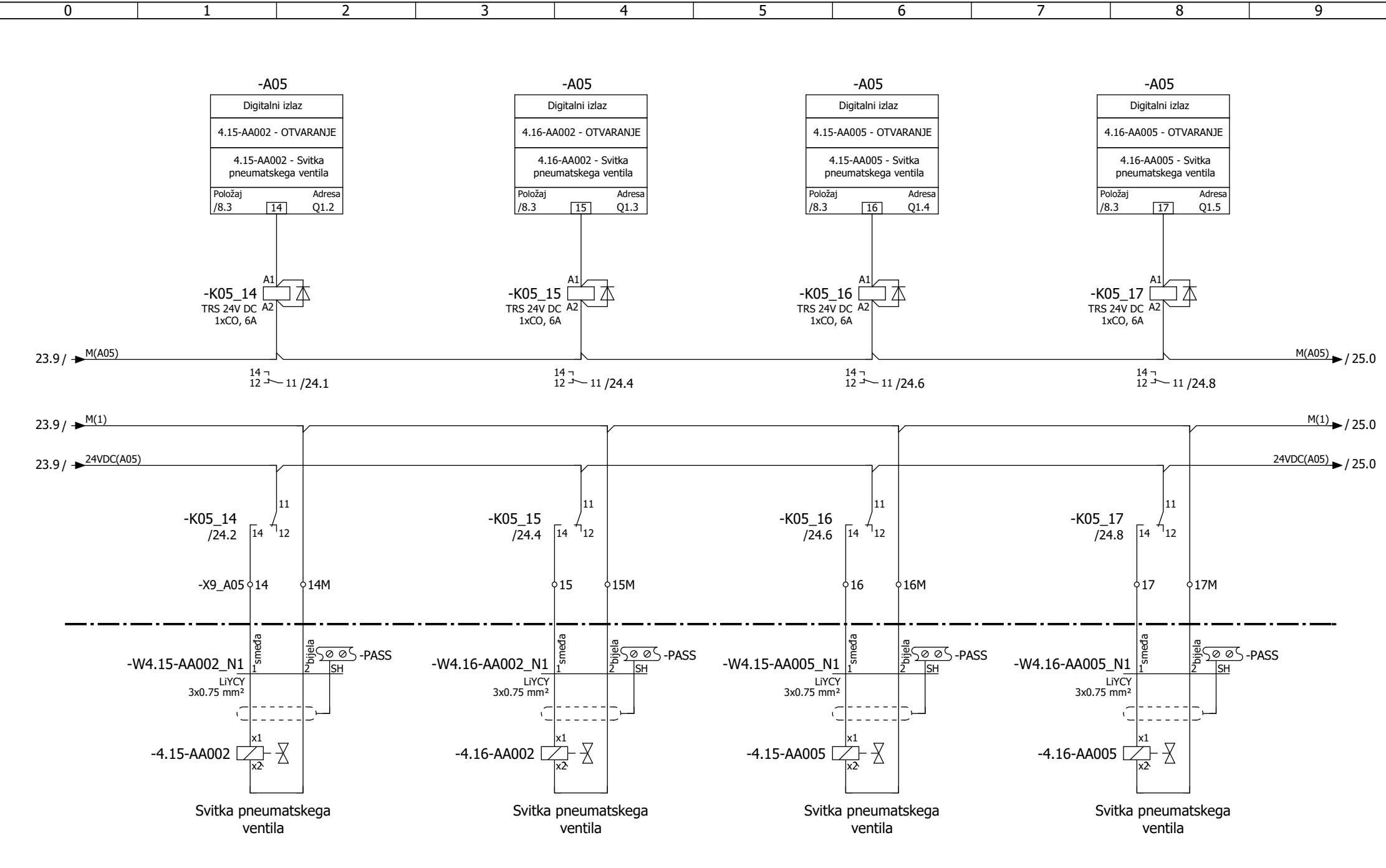


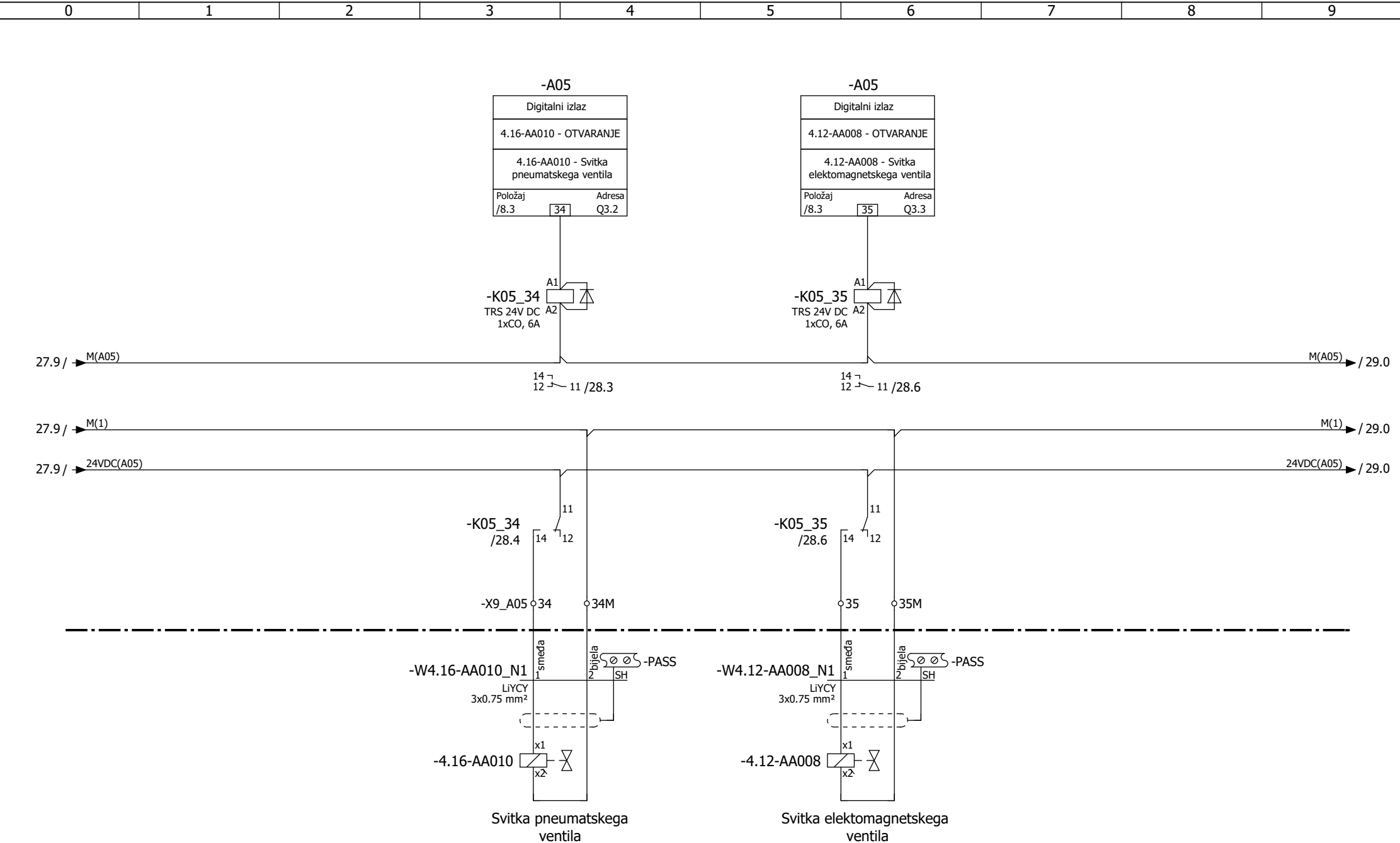




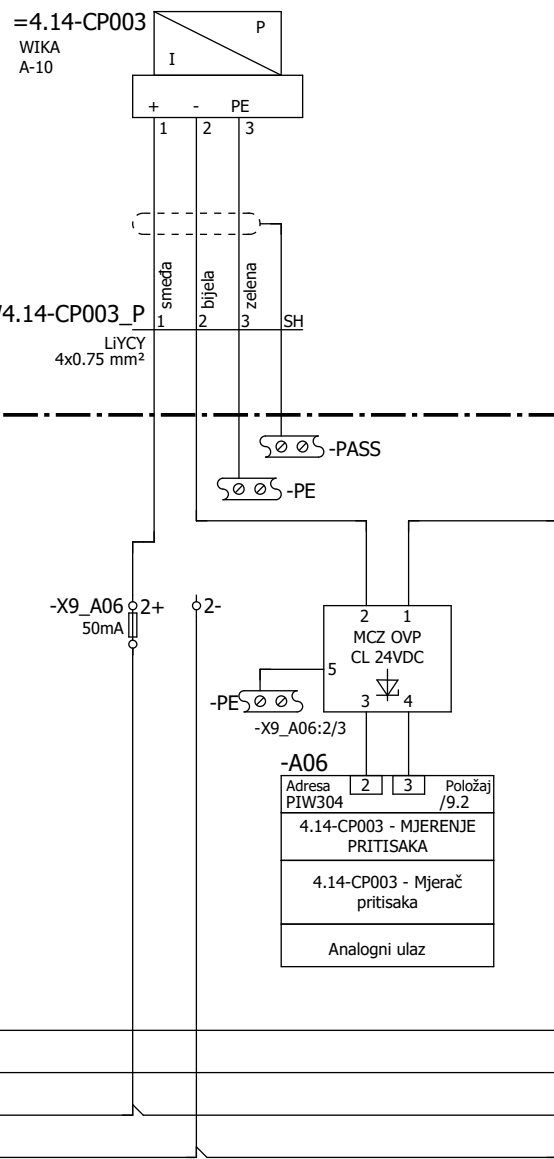




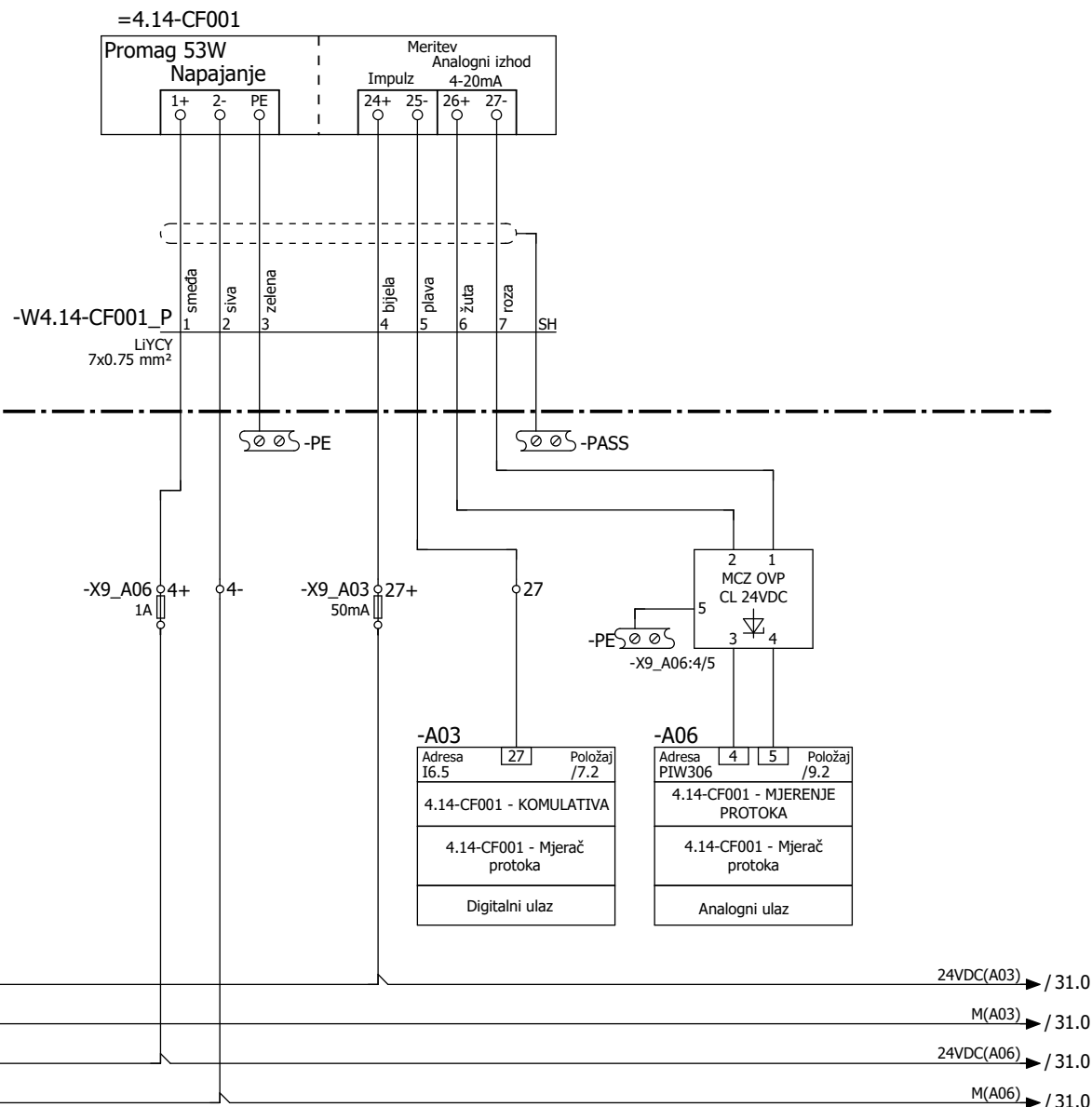




4.14-CP003 - Mjerač pritiska

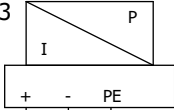


4.14-CF001 - Mjerač protoka



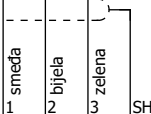
4.11-CP003 - Mjerač pritiska

=4.11-CP003
Wika
A-10



-W4.11-CP003_P

LIYCY
4x0.75 mm²

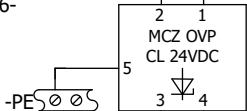


-PASS

-PE

-X9_A06
50mA

6+ 6-



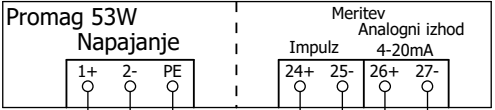
-X9_A06:6/7

-A06

Adresa	6	7	Položaj
PIW308			/9.2
4.11-CP003 - MJERENJE PRITISAKA			
4.11-CP003 - Mjerač pritiska			
Analogni ulaz			

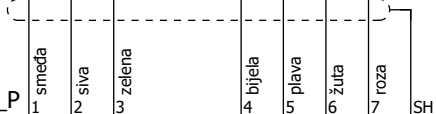
4.11-CF001 - Mjerač protoka

=4.11-CF001



-W4.11-CF001_P

LIYCY
7x0.75 mm²



-PE

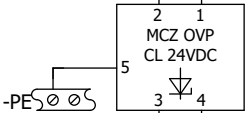
-PASS

-X9_A06
1A

8+ 8-

-X9_A03
50mA

28+ 28



-X9_A06:8/9

-A06

Adresa	8	9	Položaj
PIW310			/9.2
4.11-CF001 - MJERENJE PROTOKA			
4.11-CF001 - Mjerač protoka			
Analogni ulaz			

-A03

Adresa	28	Položaj
I6.6		/7.2
4.11-CF001 - KOMULATIVA		
4.11-CF001 - Mjerač protoka		
Digitalni ulaz		

30.9 / 24VDC(A03)

30.9 / M(A03)

30.9 / 24VDC(A06)

30.9 / M(A06)

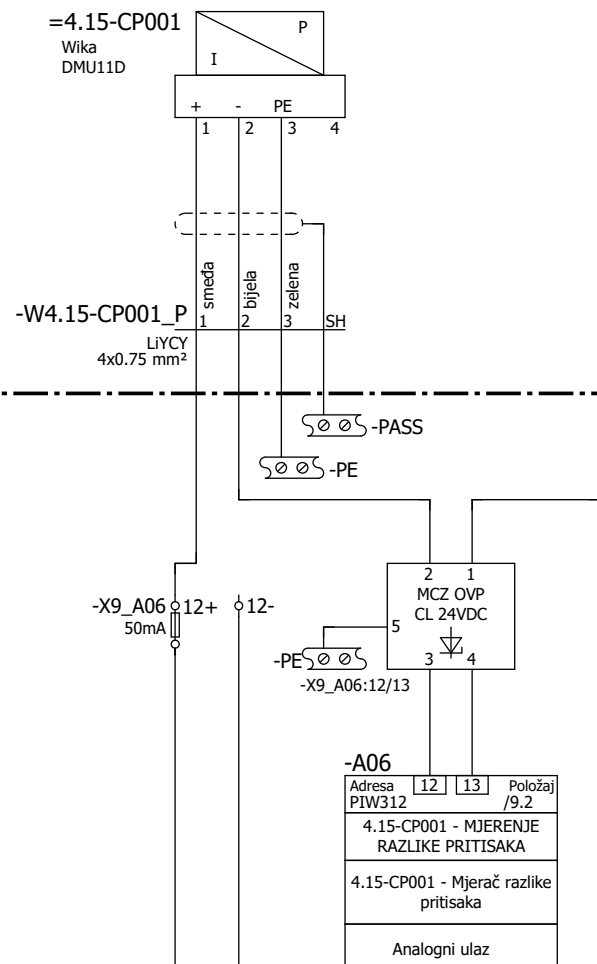
24VDC(A03) / 32.0

M(A03) / 32.0

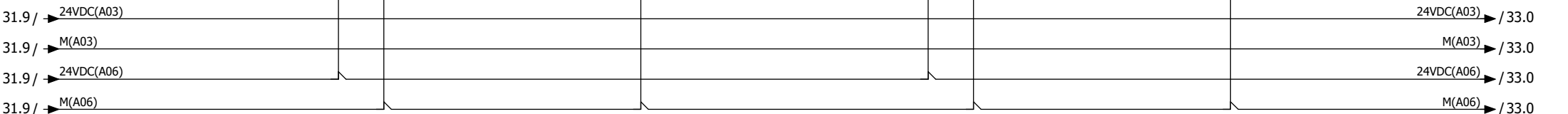
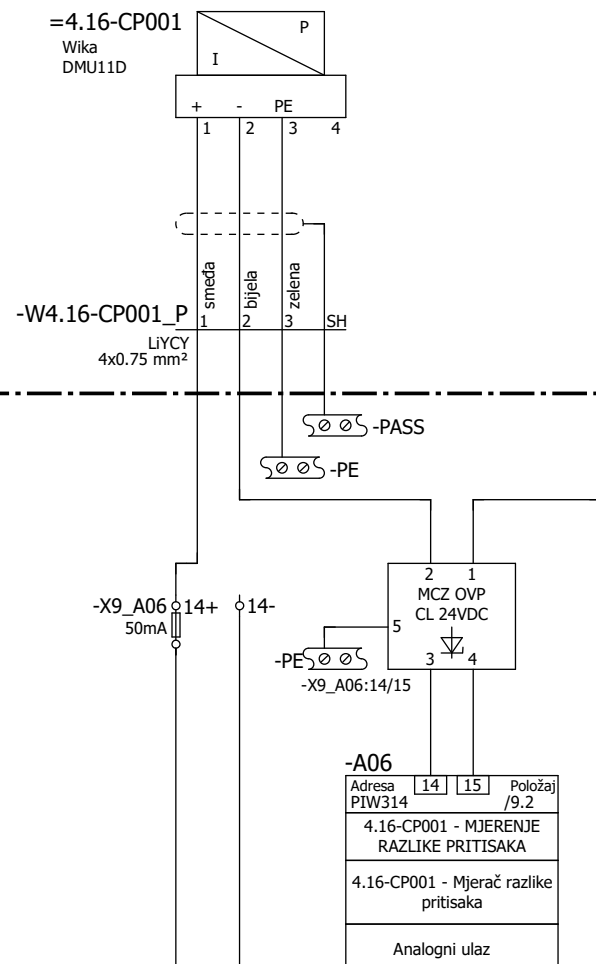
24VDC(A06) / 32.0

M(A06) / 32.0

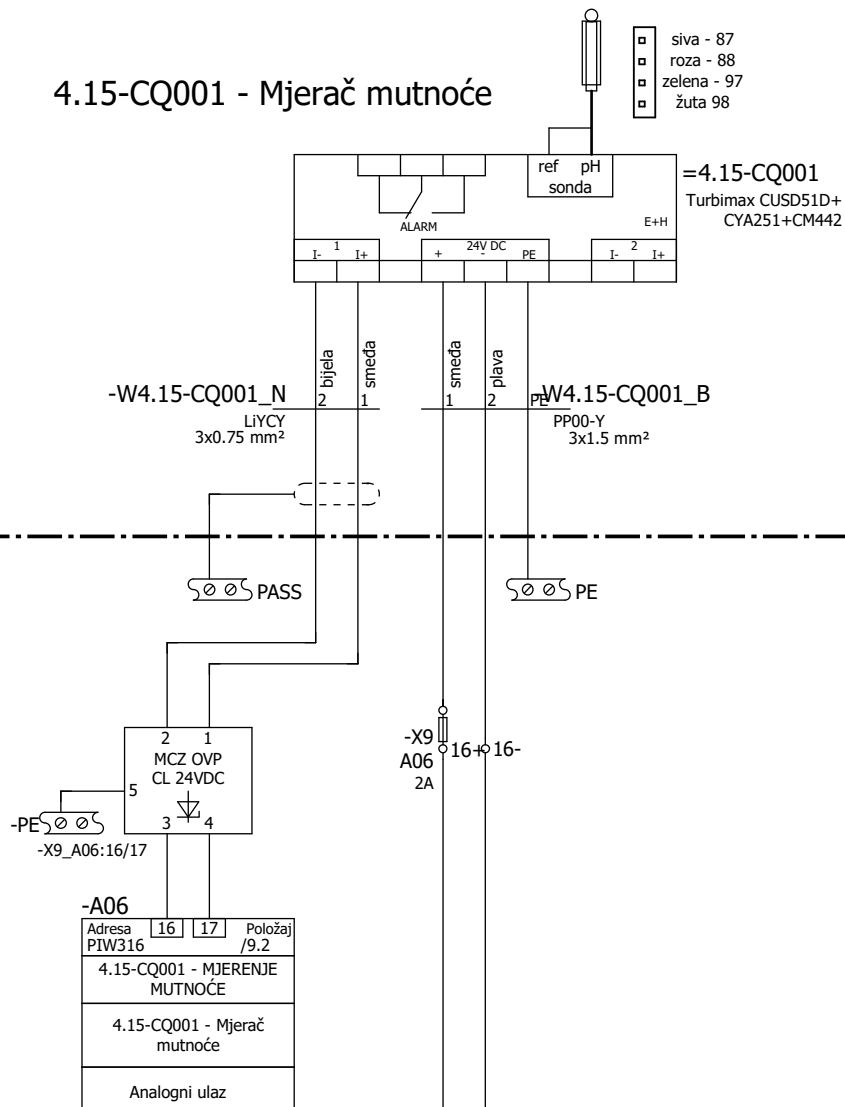
4.15-CP001 - Mjerač razlike pritisaka



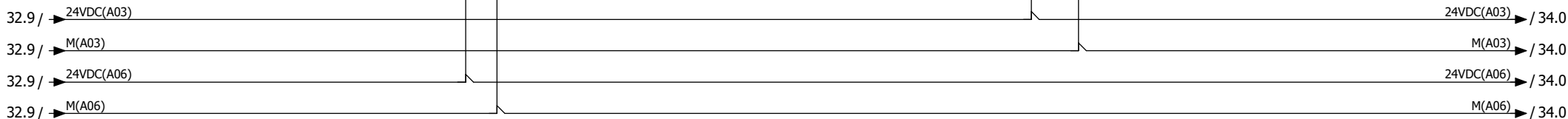
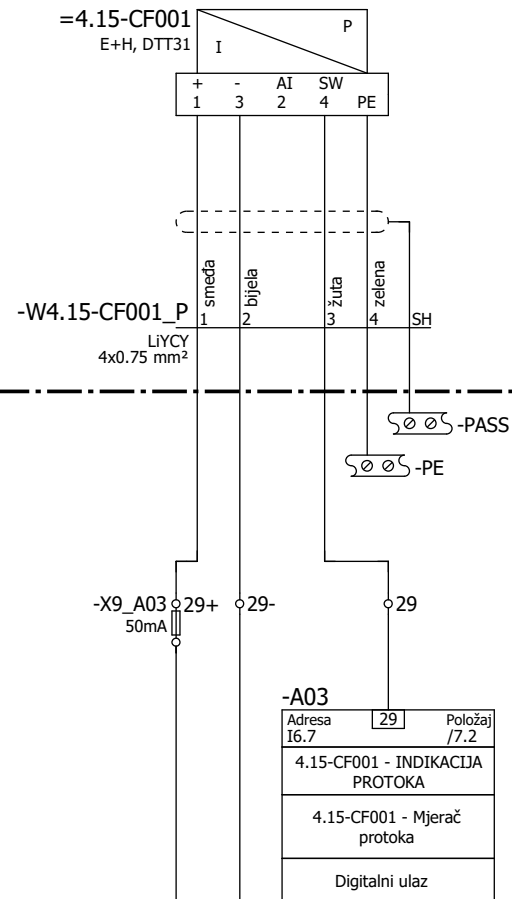
4.16-CP001 - Mjerač razlike pritisaka

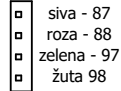


4.15-CQ001 - Mjerač mutnoće



4.15-CF001 - Mjerač protoka





				ref pH sonda			
ALARM						E+H	
I- ¹	I+ ¹	+	24V DC	PE	I- ²	I+ ²	

LiYCY
3x0.75 mm²

PP00-Y	3x1.5 mm ²
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2 1
MCZ OVP
CL 24VDC
5
3 4

=4.12-CF001
E+H, DTT31

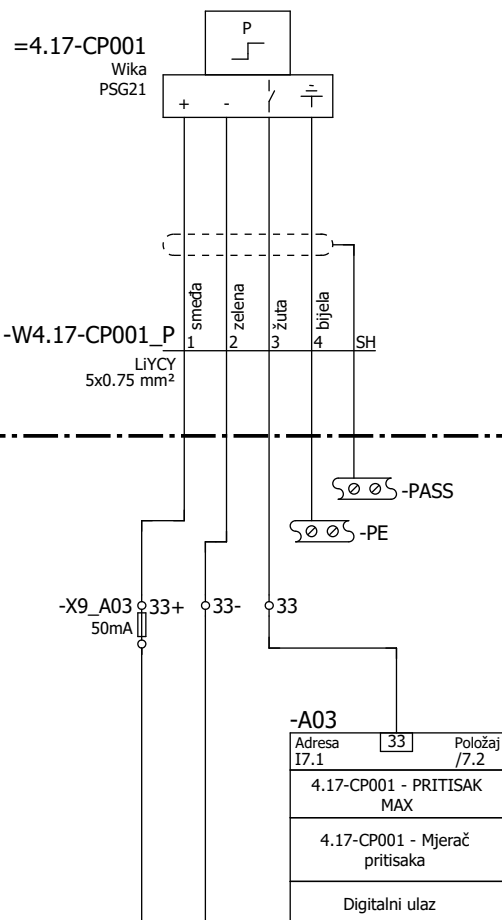
LiYCY
4x0.75 mm²

-X9_A03 32+ 32

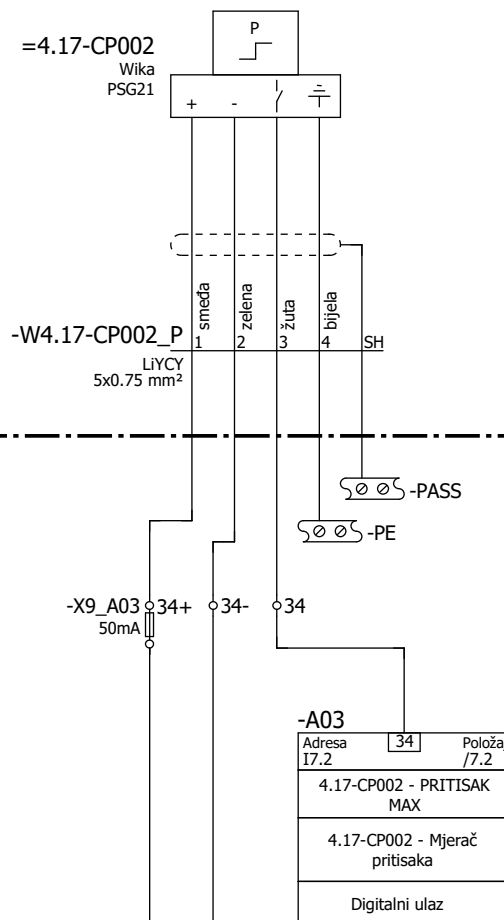
-A03	
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33 9 / 24VDC(A03) 24VDC(A03) / 35 0

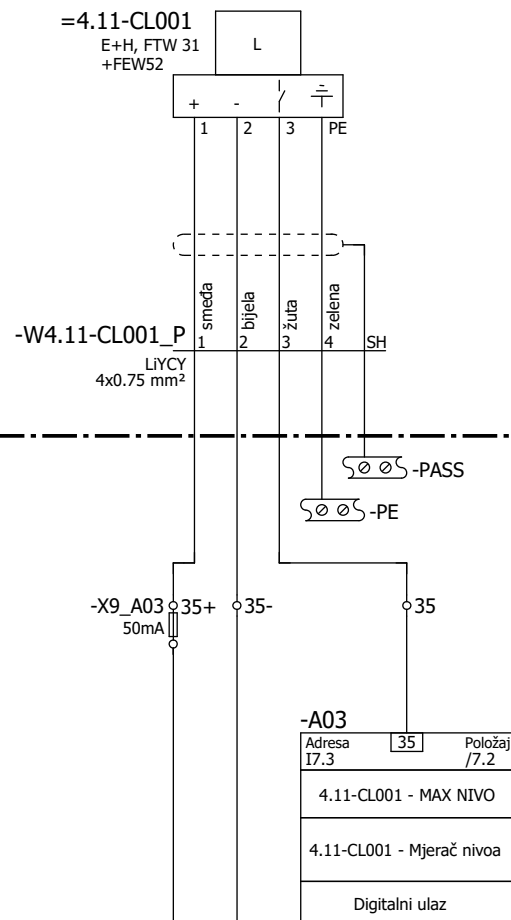
4.17-CP001 - Mjerač pritiska



4.17-CP002 - Mjerač pritiska

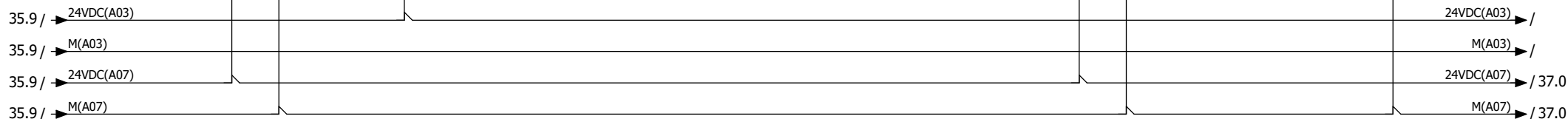
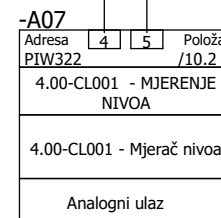
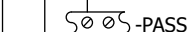
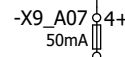
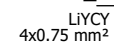
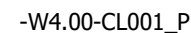
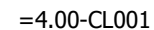
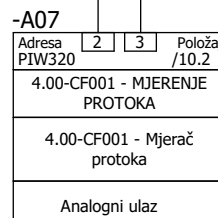
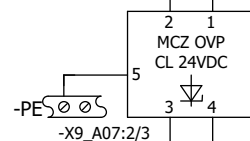
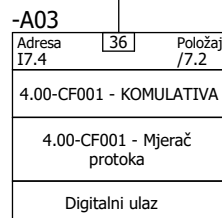
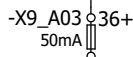
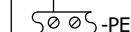
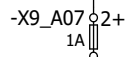
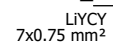
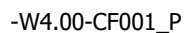
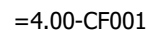


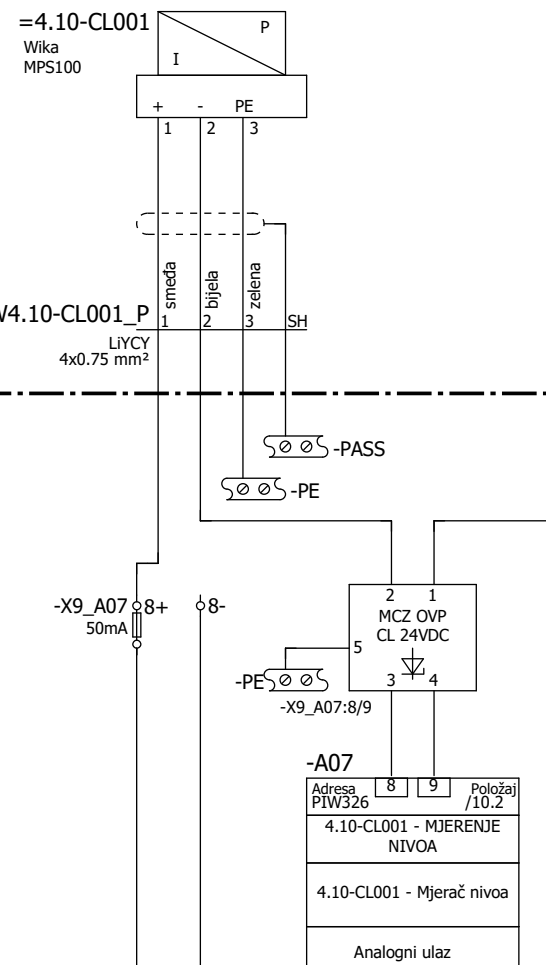
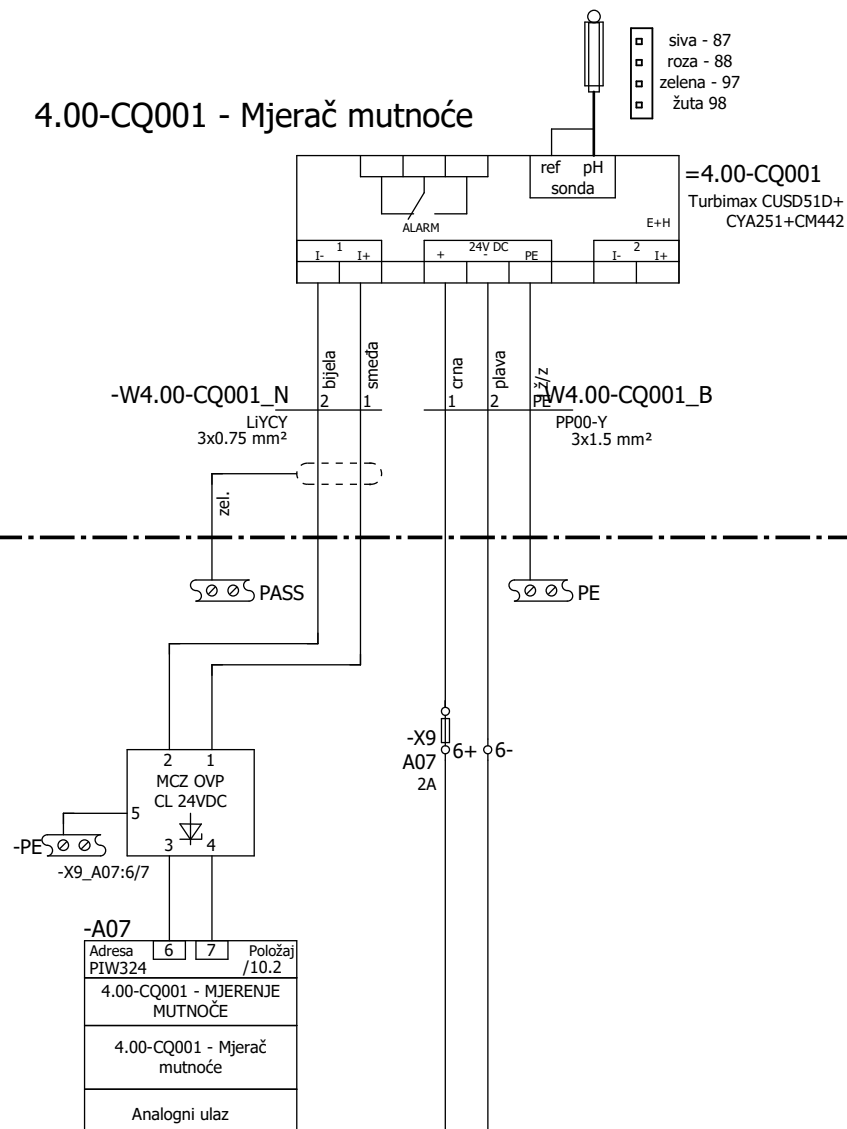
4.11-CL001 - Mjerač nivoa



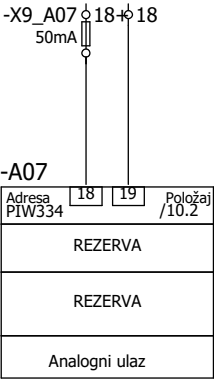
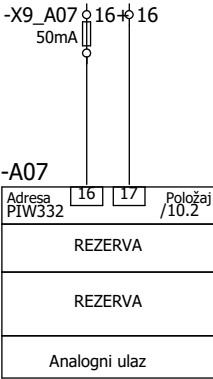
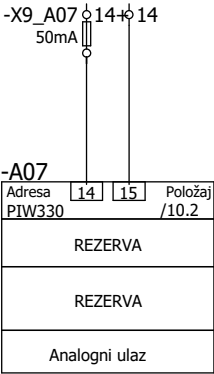
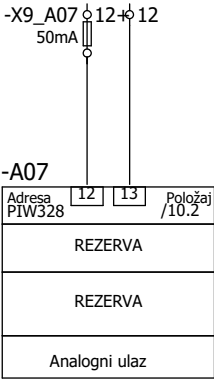
The diagram shows four signal traces over time. The top trace is 24VDC(A03) with a 34.9V scale bar. The second trace is M(A03) with a 34.9V scale bar. The third trace is 24VDC(A07) with a 2.5V scale bar. The bottom trace is M(A07) with a 2.5V scale bar. All traces show a transition from low to high at the same time point.

Signal	Scale
24VDC(A03)	34.9
M(A03)	34.9
24VDC(A07)	2.5
M(A07)	2.5





REZERVNI ANALOGNI ULAZI



Popis opreme									
Br.	Sklic	Oznaka	Naziv	Opis			Proizvođač	Tip - Oznaka	
1	+P1/1.1	-F01	Prekidač, automatski	Automatski prekidač, 1p, C klasa, 16A 10kA			SCHRACK	C16A 1p	
2	+P1/1.2	-F1	Prekidač, automatski	Automatski prekidač, 1p, B klasa, 10A, 10kA			SCHRACK	B10A 1p	
3	+P1/1.2	-B01	Termostat	Termostat za montažu u ormar, 1 preklopni kontakt, 230V, 10A, 0-60°C			SCHRACK	IUK08566	
4	+P1/1.2	-M1	Ventilator	Ventilator sa filterom za ormare, dim.:145x145x70mm, IP54, ventilator 230V, 19W, 44m3/h			SCHRACK	IUKNF2523A	
5	+P1/1.2	-M1	Filter,izlazni	Izlazni filter , dim.:145x145x26mm, izrez 125x125, IP54			SCHRACK	IUKNE250	
6	+P1/1.4	-H1	Lampica, magnetna	Lampica magnetna sa utičnicom, 230V, 18W, utičnica 16A, IP 20			SCHRACK	IU008508	
7	+P1/1.6	-F2	Prekidač, automatski	Automatski prekidač, 1p, C klasa, 6A 10kA			SCHRACK	C6A 1p	
8	+P1/2.2	-S1	Prekidač, jednopolno	Stikalo, jednopolno, sa prednjo montažo, s NO kontaktima, IP 66			SCHRACK	M22-WRK-K10	
9	+P1/2.2	-G1	Modul, napojni	Simatic SITOP POWER SUPPLY, modul napojni 120/230V AC (110/350v DC)/ 24V DC, 10A			SIEMENS	230V/24VDC 10A	
10	+P1/2.4	-H1.1	Lampa, signalna	Lampa signalna, zelena, 24V AC/DC LED, kpl sa LED lampo i podnožjem			EATON	M22-L-G+M22-LED-G	
11	+P1/3.0	-U01	Modul, napojni	230VAC/24VDC, 10A, modul napojni za I/O i PLC			VIPA	VIPA 307-1KA00	
12	+P1/3.5	-A01	SLIO CPU modul	CPU 015-SPEED7 tehnologija, DC24V, 256kByte, NVS-RAM, MPI interface, SD- prorez, Ethernet sučelje za PG/OP komunikaciju, RS 485 sučelje, ModbusRTU Master/slave ili MPI, PROFINET, PROFIBUS-DP master, 64 SLIO modulov			VIPA	VIPA 015-CEFP01	
13	+P1/3.8	-F3	Prekidač, automatski	Automatski prekidač, 1p, C klasa, 6A 10kA, DC			SCHRACK	C6A-DC 1p	
14	+P1/4.1	-F4	Prekidač, automatski	Automatski prekidač, 1p, C klasa, 2A 10kA, DC			SCHRACK	C2A-DC 1p	
15	+P1/4.4	-F5	Prekidač, automatski	Automatski prekidač, 1p, C klasa, 2A 10kA, DC			SCHRACK	C2A-DC 1p	
16	+P1/4.5	-F6	Prekidač, automatski	Automatski prekidač, 1p, C klasa, 2A 10kA, DC			SCHRACK	C2A-DC 1p	
17	+P1/6.2	-A02	DI modul	DI 32x24V - Digitalni ulaz 32xDI DC 24V			VIPA	VIPA 321-1BL00	
18	+P1/7.2	-A03	DI modul	DI 32x24V - Digitalni ulaz 32xDI DC 24V			VIPA	VIPA 321-1BL00	
19	+P1/8.2	-A05	DO modul	DO 32x24V - 32 Digitalni izlaz			VIPA	VIPA 322-1BL00	
20	+P1/9.1	-A06	AI modul	AI 8xAI Analogni ulaz 8AI; 12-bit; izoliran			VIPA	VIPA 331-7KF01	
21	+P1/10.1	-A07	AI modul	AI 8xAI Analogni ulaz 8AI; 12-bit; izoliran			VIPA	VIPA 331-7KF01	
22	+P1/21.6	-K_V_C	Relej, minijturni	Minijturni relej sa 4 preklopnimi kontakti, 12V DC			SCHRACK	PT570012	
23	+P1/23.1	-K05_7	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
24	+P1/23.3	-K05_8	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
25	+P1/23.5	-K05_9	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
26	+P1/23.6	-K05_12	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
27	+P1/24.2	-K05_14	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
28	+P1/24.4	-K05_15	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
29	+P1/24.6	-K05_16	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
30	+P1/24.8	-K05_17	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
31	+P1/25.2	-K05_18	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
32	+P1/25.4	-K05_19	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
33	+P1/25.6	-K05_22	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
34	+P1/25.8	-K05_23	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
35	+P1/26.4	-K05_25	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
36	+P1/26.6	-K05_26	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
37	+P1/26.8	-K05_27	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
38	+P1/27.2	-K05_28	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
39	+P1/27.4	-K05_29	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
40	+P1/27.6	-K05_32	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
41	+P1/27.8	-K05_33	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
42	+P1/28.4	-K05_34	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	
43	+P1/28.6	-K05_35	Relej, minijturni	Minijturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC			WEIDMULLER	TRS 24V DC 1CO	

Popis opreme

Br.	Sklic	Oznaka	Naziv	Opis	Proizvođač	Tip - Oznaka
44	+P1/29.2	-K05_36	Relej, minijaturni	Minijaturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC	WEIDMULLER	TRS 24V DC 1CO
45	+P1/29.4	-K05_37	Relej, minijaturni	Minijaturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC	WEIDMULLER	TRS 24V DC 1CO
46	+P1/29.6	-K05_38	Relej, minijaturni	Minijaturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC	WEIDMULLER	TRS 24V DC 1CO
47	+P1/29.7	-K05_39	Relej, minijaturni	Minijaturni TRS relej sa 1 preklopnim kontaktom, kpl sa svitko i diodo, 6A, 24V DC	WEIDMULLER	TRS 24V DC 1CO
48	+P1/30.2	-X9_A06:2/3	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
49	+P1/30.7	-X9_A06:4/5	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
50	+P1/31.2	-X9_A06:6/7	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
51	+P1/31.7	-X9_A06:8/9	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
52	+P1/32.3	-X9_A06:12/13	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
53	+P1/32.6	-X9_A06:14/15	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
54	+P1/33.1	-X9_A06:16/17	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
55	+P1/34.1	-X9_A06:18/19	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
56	+P1/36.4	-X9_A07:2/3	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
57	+P1/36.7	-X9_A07:4/5	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
58	+P1/37.1	-X9_A07:6/7	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
59	+P1/37.7	-X9_A07:8/9	Zaštita, prenaponska	Prenaponska zaštita za mjerne zanke 4-20mA, 24V DC	WEIDMULLER	MCZ_OVP_CL_24VDC
60	+P1/39.3	-F8	Prekidač, automatski	Automatski prekidač, 1p, C klasa, 10A 10kA	SCHRACK	C10A 1p
61	+P1/39.6	-F9	Prekidač, automatski	Automatski prekidač, 1p, B klasa, 10A, 10kA	SCHRACK	B10A 1p

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Funkcionalan tekst	Ime kabela	Tip kabela	=Rplc+P1-PE				Ime kabela	Tip kabela									Tip/ presjek	Stranica/ kolona
			Vanjske poveznice	Stezaljka	Most	Unutrašnje poveznice												
	-W4.15-CQ001_P	LYCY 4x0.75 mm²																/33.3
	-W4.12-CQ001_B	PP00-Y 3x1.5 mm²	PE															/34.3
	-W4.00-CQ001_B	PP00-Y 3x1.5 mm²		PE														/37.3
	-W4.14-CP003_P	LYCY 4x0.75 mm²																/1.2
	-W4.14-CP001_P	LYCY 7x0.75 mm²																/1.3
	-W4.11-CP003_P	LYCY 4x0.75 mm²																/1.4
	-W4.11-CP001_P	LYCY 7x0.75 mm²																/1.5
	-W4.15-CP001_P	LYCY 4x0.75 mm²																/1.6
	-W4.16-CP001_P	LYCY 4x0.75 mm²																/2.2
	-W4.15-CP001_P	LYCY 4x0.75 mm²																/3.2
																		/3.3
																		/3.3
																		/3.3
																		/4.1
																		/4.6
						3												/30.2
																		/30.2
						3												/30.5
																		/30.7
						3												/31.2
																		/31.2
																		/31.5
																		/31.7
						3												/32.2
																		/32.2
						3												/32.6
																		/32.6
																		/33.1
																		/33.7
	-W4.15-CF001_P	LYCY 4x0.75 mm²																/33.7

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Funkcionalan tekst						=Rplc+P1-X9_A03	Ime kabela	Tip kabela	
Ime kabela	Tip kabela	Vanjske poveznice	Stezaljka	Most	Unutrašnje poveznice	Tip kabela	Tip/ presjek	Stranica/ kolona	
-W4.12-AA006_N	LYCY 12x0,75 mm²	=4.17-CP001	33	·	-A03	33	ZDU 4	/35.2	
-W4.12-AA005_N	LYCY 12x0,75 mm²	=4.17-CP002	34	·	-A03	34	ZDU 4	/35.5	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=4.17-CP001	33+	·			WSI 4/50mA	/35.1	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=4.17-CP002	34+	·			WSI 4/50mA	/35.4	
-W4.12-AA009_N	LYCY 12x0,75 mm²		33-	·	=4.17-CP001		ZDU 4 BL	/35.1	
-W4.12-AA009_N	LYCY 12x0,75 mm²		34-	·	=4.17-CP002		ZDU 4 BL	/35.4	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=Rmv_1-X9_4.00-AA009	5	·	-A03	5	ZDU 4	/17.5	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=Rgl-X9_GK	5	·	-A03	7	ZDU 4	/17.8	
-W4.12-AA009_N	LYCY 12x0,75 mm²		7-	·	-X9_M	2	ZDU 4 BL	/17.8	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=Rgl-X9_4.20-AP010	2	·	-A03	8	ZDU 4	/18.3	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=Rgl-X9_4.20-AP010	1	·			ZDU 4	/18.3	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=Rgl-X9_4.20-AP010	3	·	-A03	9	ZDU 4	/18.4	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=Rgl-X9_4.20-AP010	4	·	-A03	12	ZDU 4	/18.6	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=4.15-CF001	1	·			WSI 4/50mA	/33.6	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=4.12-CF001	1	·			WSI 4/50mA	/34.6	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=4.15-CF001	3	·			ZDU 4 BL	/33.6	
-W4.12-AA009_N	LYCY 12x0,75 mm²	=4.12-CF001	3	·			ZDU 4 BL	/34.6	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	2	·	=Rmv_1-X9_4.00-AA009	2	ZDU 4	/17.1	
-W4.12-AA009_N	LYCY 12x0,75 mm²		2+	·	=Rmv_1-X9_4.00-AA009	1	ZDU 4	/17.1	
-W4.12-AA009_N	LYCY 12x0,75 mm²		7+	·	=Rgl-X9_GK	4	ZDU 4	/17.8	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	13	·	=Rmv_2-X9_4.12-AA005	2	ZDU 4	/19.2	
-W4.12-AA009_N	LYCY 12x0,75 mm²		13+	·	=Rmv_2-X9_4.12-AA005	1	ZDU 4	/19.2	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	19	·	=Rmv_2-X9_4.12-AA006	2	ZDU 4	/20.2	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-X9_R	37+	·	=Rmv_2-X9_4.12-AA006	1	ZDU 4	/20.2	
-W4.12-AA009_N	LYCY 12x0,75 mm²		2	·			WSI 4/250mA	/17.1	
-W4.12-AA009_N	LYCY 12x0,75 mm²		13.1+	·			WSI 4/250mA	/19.2	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	3	·	=Rmv_1-X9_4.00-AA009	3	ZDU 4	/17.2	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	14	·	=Rmv_2-X9_4.12-AA005	3	ZDU 4	/19.3	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	22	·	=Rmv_2-X9_4.12-AA006	3	ZDU 4	/20.3	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	4	·	=Rmv_1-X9_4.00-AA009	4	ZDU 4	/17.3	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	15	·	=Rmv_2-X9_4.12-AA005	4	ZDU 4	/19.4	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	23	·	=Rmv_2-X9_4.12-AA006	4	ZDU 4	/20.4	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	6	·	=Rmv_1-X9_4.00-AA009	6	ZDU 4	/17.6	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	16	·	=Rmv_2-X9_4.12-AA005	5	ZDU 4	/19.5	
-W4.12-AA009_N	LYCY 12x0,75 mm²	-A03	17	·	=Rmv_2-X9_4.12-AA005	6	ZDU 4	/19.6	


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 družba za razvoj in izvajanje ekoloških in energetskih projektov d.d. Preloška c.1, 3320 VELENJE	Datum:	Kolovoz 2017	Licenca:	Datum:	Potpis:	Investitor: KOMRAD d.o.o.	ID.br.pod:	Br.projekta:	Br.nacrta:	Br.mape:	Faza:	= Rplc
	Glav.proj.e.projekta:	B.Žigon, u.d.i.s.	S-0973			Objekt: Vodocrpalistiše Vočin-Sobunar	0402	1143/2016	1143/2016-E	M4	PROJ.IZV.ST.	+ Sponc_list
	Glavni.projektant:	D.Friškovec, u.d.i.e.	E-0282			Sadržaj: Lista stezaljka	Sklop:				Br.nacrta:	Stran 1
	Projektant:	M.Zaveršnik, mag.inž.el.				Obrađeno: PLC upravljački ormar =Rplc	PLC upravljački ormar =Rplc				6.4	Stran 2

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Popis kabela


Br.	Oznaka kabela	Početak	Kraj	Tip kabela	Br.žil	Dužina [m]	Funkcija kabela
1	WRcrp_PLC_B	=Rcrp+P1-X2_17	+P1-X2	PP00-Y 3x2.5 mm²	3		Dovodni kabel upravljačkoga ormara =Rplc
2	WKrm_nap_N	=Rgl+P1-X9_Krm_nap	+P1-X9_A02	LiYCY 4x0.75 mm²	3		
3		+P1-PASS					
4	W4.11-AP010_N	=Rgl+P1-X9_4.11-AP010	+P1-X9_A02	LiYCY 4x0.75 mm²	4		
5		+P1-PASS					
6	W4.11-AP20_N	=Rgl+P1-X9_4.11-AP020	+P1-X9_A02	LiYCY 4x0.75 mm²	4		
7		+P1-PASS					
8	W4.04-AP010_N	=Rgl+P1-X9_4.04-AP010	+P1-X9_A02	LiYCY 4x0.75 mm²	4		
9		+P1-PASS					
10	W4.04-AP020_N	=Rgl+P1-X9_4.04-AP020	+P1-X9_A02	LiYCY 4x0.75 mm²	4		
11		+P1-PASS					
12	W4.17-AP010_N	=Rgl+P1-X9_4.17-AP010	+P1-X9_A02	LiYCY 7x0.75 mm²	6		
13		+P1-PASS	+P1-X9_A05				
14	W4.13-AP020_N	=Rgl+P1-X9_4.13-AP020	+P1-X9_A02	LiYCY 7x0.75 mm²	6		
15		+P1-PASS	+P1-X9_A05				
16			+P1-PASS				
17	W4.20-AP010_N	=Rgl+P1-X9_4.20-AP010	+P1-X9_A02	LiYCY 7x0.75 mm²	6		
18		+P1-PASS	+P1-X9_A05				
19	W4.13-AP010_N	=Rgl+P1-X9_4.13-AP010	+P1-X9_A02	LiYCY 7x0.75 mm²	6		
20			+P1-X9_A05				
21	W4.00-AA007_N	+P1-PASS	+P1-PASS	LiYCY 12x0.75 mm²	9		
22		+P1-X9_A02	=Rmv_1+P1-X9_4.00-AA007				
23		+P1-X9_A05					
24	W4.00-AA009_N	+P1-PASS	+P1-PASS	LiYCY 12x0.75 mm²	6		
25		+P1-X9_A03	=Rmv_1+P1-X9_4.00-AA009				
26	WGK_N	=Rgl+P1-X9_GK	+P1-X9_A03	LiYCY 3x0.75 mm²	2		
27	W4.20-AP020_N		=Rgl+P1-X9_4.20-AP020	LiYCY 7x0.75 mm²	6		
28		=Rgl+P1-X9_4.20-AP010	+P1-X9_A03				

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Popis kabela


Br.	Oznaka kabela	Početak	Kraj	Tip kabela	Br.žil	Dužina [m]	Funkcija kabela
29		+P1-PASS					
30	W4.12-AA006_N	+P1-X9_A03	=Rmv_2+P1-X9_4.12-AA006	LiYCY 12x0.75 mm²	7		
31	W4.17-AP010_N2	=Rgl+P1-X9_4.17-AA001	+P1-X9_A05	LiYCY 7x0.75 mm²	2		
32	W4.00-AA009_N1	+P1-X9_A05	=Rmv_1+P1-X9_4.00-AA009	LiYCY 12x0.75 mm²	3		4.00-AA009 - AUMA ventil 2
33	WF33_N	=Rgl+P1-X9_F33	+P1-X9_A05	LiYCY 5x0.75 mm²	2		
34	W4.15-AA002_N1	+P1-PASS	+P1-4.15-AA002	LiYCY 3x0.75 mm²	2	20 m	4.15-AA002 - Svitka pneumatskega ventila
35		+P1-X9_A05					
36	W4.16-AA002_N1	+P1-PASS	+P1-4.16-AA002	LiYCY 3x0.75 mm²	2	20 m	4.16-AA002 - Svitka pneumatskega ventila
37		+P1-X9_A05					
38	W4.15-AA005_N1	+P1-PASS	+P1-4.15-AA005	LiYCY 3x0.75 mm²	2	20 m	4.15-AA005 - Svitka pneumatskega ventila
39		+P1-X9_A05					
40	W4.16-AA005_N1	+P1-PASS	+P1-4.16-AA005	LiYCY 3x0.75 mm²	2	20 m	4.16-AA005 - Svitka pneumatskega ventila
41		+P1-X9_A05					
42	W4.15-AA007_N1	+P1-PASS	+P1-4.15-AA007	LiYCY 3x0.75 mm²	2	20 m	4.15-AA007 - Svitka pneumatskega ventila
43		+P1-X9_A05					
44	W4.16-AA007_N1	+P1-PASS	+P1-4.16-AA007	LiYCY 3x0.75 mm²	2	20 m	4.16-AA007 - Svitka pneumatskega ventila
45		+P1-X9_A05					
46	W4.15-AA009_N1	+P1-PASS	+P1-4.15-AA009	LiYCY 3x0.75 mm²	2	20 m	4.15-AA009 - Svitka pneumatskega ventila
47		+P1-X9_A05					
48	W4.16-AA009_N1	+P1-PASS	+P1-4.16-AA009	LiYCY 3x0.75 mm²	2	20 m	4.16-AA009 - Svitka pneumatskega ventila
49		+P1-X9_A05					
50	W4.15-AA003_N1		+P1-4.15-AA003	LiYCY 3x0.75 mm²	2	20 m	4.15-AA003 - Svitka pneumatskega ventila
51		+P1-PASS					
52	W4.15-AA011_N1		+P1-4.15-AA011	LiYCY 3x0.75 mm²	2	20 m	4.15-AA011 - Svitka pneumatskega ventila
53		+P1-PASS					
54	W4.15-AA020_N1		+P1-4.15-AA020	LiYCY 3x0.75 mm²	2	20 m	4.15-AA020 - Svitka elektromagnetskega ventila
55		+P1-PASS					
56	W4.16-AA003_N1	+P1-PASS	+P1-PASS	LiYCY 3x0.75 mm²	2	20 m	4.16-AA003 - Svitka pneumatskega ventila

Popis kabela

 družba za razvoj in izvajanje ekoloških in energetskih projektov d.d. Preloška c.1, 3320 VELENJE	Datum:	Kolovoz 2017	Licenca:	Datum:	Potpis:	Investitor: KOMRAD d.o.o.	ID.br.pod:	Br.projekta:	Br.nacrta:	Br.mape:	Faza:	= Rplc
	Glav.proj.e.projekta:	B.Žigon, u.d.i.s.	S-0973			Objekt: Vodocrpalistiše Vočin-Sobunar	0402	1143/2016	1143/2016-E	M4	PROJ.IZV.ST.	+ Kabl_list
	Glavni.projektant:	D.Friškovec, u.d.i.e.	E-0282			Sadržaj: Popis kabela	Sklop:				Br.nacrta:	Stran
	Projektant:	M.Zaveršnik, mag.inž.el.				Obrađeno: PLC upravljački ormar =Rplc	PLC upravljački ormar =Rplc				6.5	Stran

0	1	2	3	4	5	6	7	8	9
Popis kabela									
Br.	Oznaka kabela	Početak	Kraj	Tip kabela	Br.žil	Dužina [m]	Funkcija kabela		
85		+P1-X9_A06							
86		+P1-X9_A03							
87		+P1-X9_A06:8/9							
88	W4.15-CP001_P	+P1-PASS	=4.15+P1-CP001	LiYCY 4x0.75 mm²	3	25 m	4.15-CP001 - Mjerač razlike pritisa		
89		+P1-PE							
90		+P1-X9_A06							
91		+P1-X9_A06:12/13							
92	W4.16-CP001_P	+P1-PASS	=4.16+P1-CP001	LiYCY 4x0.75 mm²	3	25 m	4.16-CP001 - Mjerač razlike pritisa		
93		+P1-PE							
94		+P1-X9_A06							
95		+P1-X9_A06:14/15							
96	W4.15-CQ001_N	+P1-PASS	=4.15+P1-CQ001	LiYCY 3x0.75 mm²	2	25 m	4.15-CQ001 - Mjerač mutnoće		
97		+P1-X9_A06:16/17							
98	W4.15-CQ001_B	+P1-PE	=4.15+P1-CQ001	PP00-Y 3x1.5 mm²	3		4.15-CQ001 - Mjerač mutnoće		
99		+P1-X9A06							
100	W4.15-CF001_P	+P1-PASS	=4.15+P1-CF001	LiYCY 4x0.75 mm²	4	25 m	4.15-CF001 - Mjerač protoka		
101		+P1-PE							
102		+P1-X9_A03							
103	W4.12-CQ001_N	+P1-PASS	=4.12+P1-CQ001	LiYCY 3x0.75 mm²	2	15 m	4.12-CQ001 - Mjerač mutnoće		
104		+P1-X9_A06:18/19							
105	W4.12-CQ001_B	+P1-PE	=4.12+P1-CQ001	PP00-Y 3x1.5 mm²	3	15 m	4.12-CQ001 - Mjerač mutnoće		
106		+P1-X9A06							
107	W4.12-CF001_P	+P1-PASS	=4.12+P1-CF001	LiYCY 4x0.75 mm²	4	15 m	4.15-CF002 - Mjerač protoka		
108		+P1-PE							
109		+P1-X9_A03							
110	W4.17-CP001_P	+P1-PASS	=4.17+P1-CP001	LiYCY 5x0.75 mm²	4	35 m	4.17-CP001 - Mjerač pritisa		
111		+P1-PE							
112		+P1-X9_A03							

Popis kabela

 družba za razvoj in izvajanje ekoloških in energetskih projektov d.d. Preloška c.1, 3320 VELENJE	Datum:	Kolovoz 2017	Licenca:	Datum:	Potpis:	Investitor: KOMRAD d.o.o.	ID.br.pod:	Br.projekta:	Br.nacrta:	Br.mape:	Faza:	= Rplc
	Glav.proj.e.projekta:	B.Žigon, u.d.i.s.	S-0973			Objekt: Vodocrpališče Vočin-Sobunar	0402	1143/2016	1143/2016-E	M4	PROJ.IZV.ST.	+ Kabl_list
	Glavni.projektant:	D.Friškovec, u.d.i.e.	E-0282			Sadržaj: Popis kabela	Sklop:				Br.nacrta:	Stran
	Projektant:	M.Zaveršnik, mag.inž.el.				Obrađeno: PLC upravljački ormar =Rplc	PLC upravljački ormar =Rplc				6.5	Stran