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TYTUŁ PROJEKTU	PROJEKT WYKONAWCZY
Numer projektu	P1280_R12
Klient końcowy	Miejskie Przedsiębiorstwo Wodociągów i Kanalizacji Sp. z o.o.
Adres	ul. Tylna 9 98-100 Łask
Nazwa/nr obiektu	OB.12 Pompownia osadów
Projektował	mgr inż. Marek Szamocki upr. LOD/1911/PWOE/12
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Sprawdził	mgr inż. Jan Cichocki upr. 162/89/Wł
Ilość stron 114	
Modyfikowano	2015-12-16

The diagram shows a power supply system for a measurement point. A 230VAC source is connected to a measurement point (POMIAR POZIOMU OSADU) via a 4...20mA signal line. The measurement point is labeled R9.

230VAC

4...20mA

R9

1

POMIAR POZIOMU
OSADU

230VAC

4...20mA

R12

1 2

POMIAR STĘŻENIA
OSADU

230VAC R15

4...20mA

1

POMIAR
pH ORAZ TEMP

1

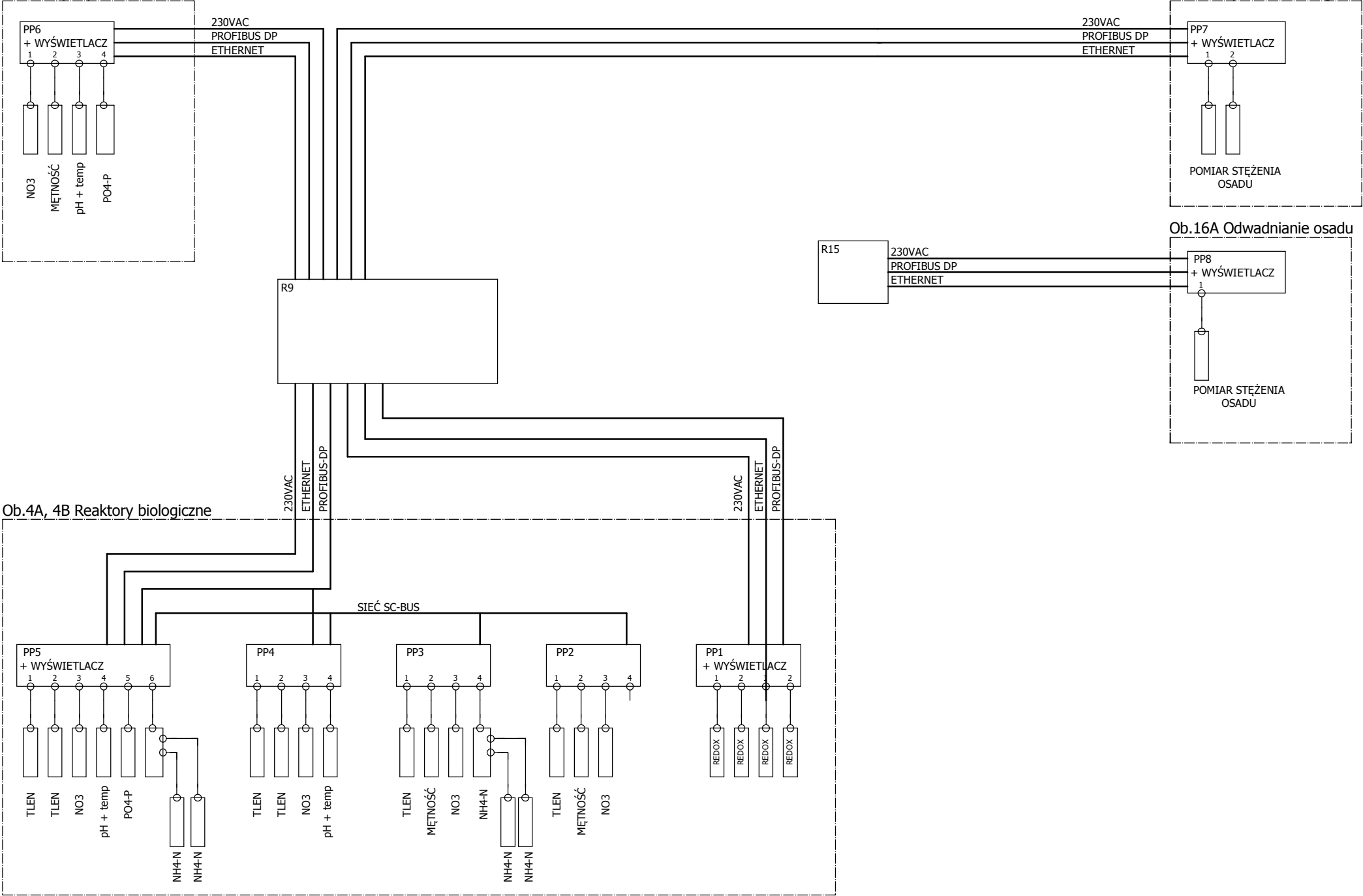
POMIAR
pH ORAZ TEMP

1

POMIAR
pH ORAZ TEMP

PRZETWORNIKI Z WYJŚCIEM
ANALOGOWYM 4...20mA

Ob.7 Koryto pomiarowe



Spis treści

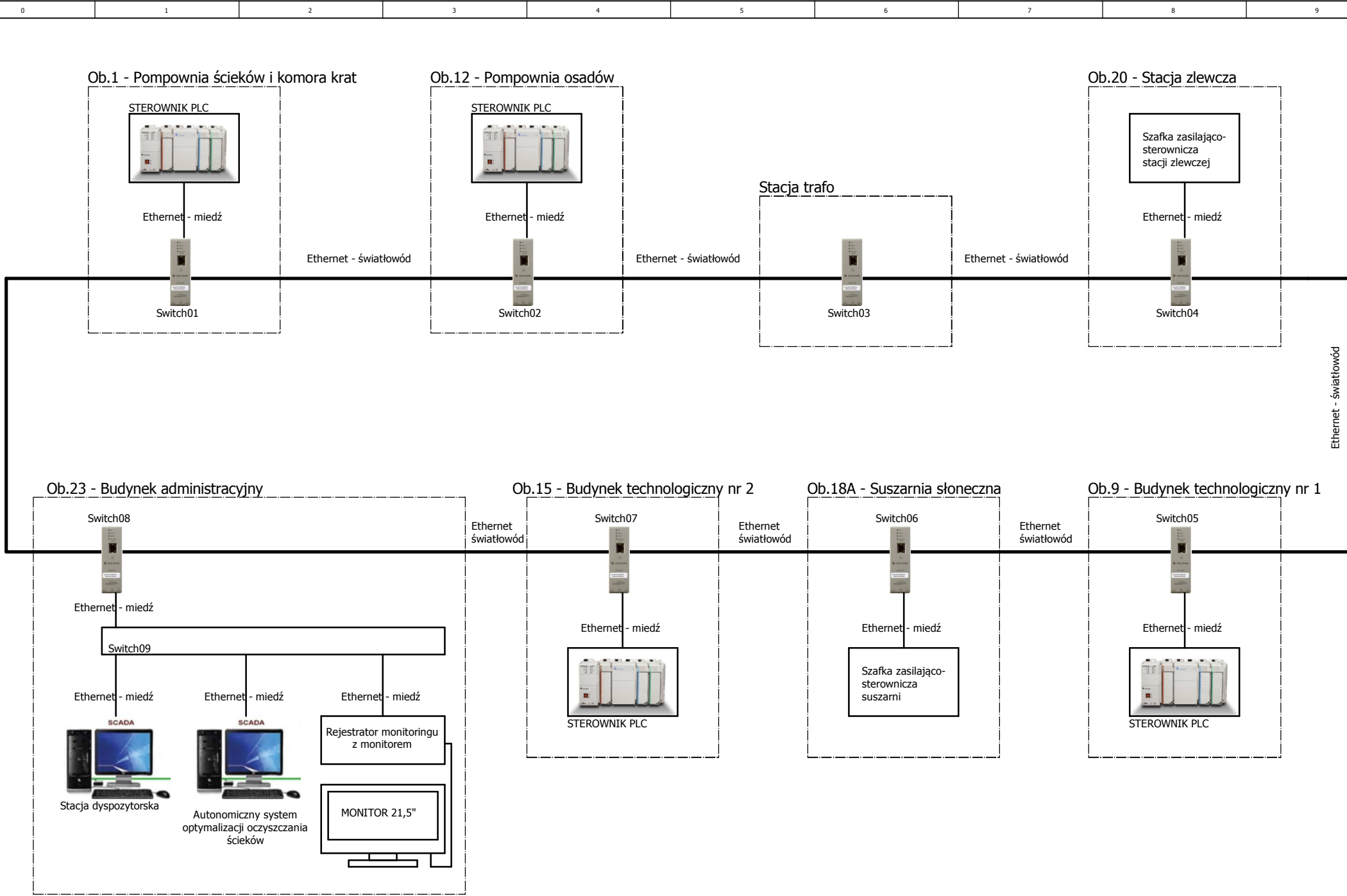
Strona	Opis stron	Dodatkowe pole strony	Data	Opracował	X
/1	Strona tytułowa / Okładka		2015-12-16		
/2	Struktura przetworników pomiarowych cz.1		2015-12-15		
/3	Struktura przetworników pomiarowych cz.2		2015-12-15		
/5	Spis treści : /1 - =R12+P2/503		2015-12-16		
/5.a	Spis treści : =R12+P2/511 - =R12+P3/1103		2015-12-16		
/5.b	Spis treści : =R12+P3/1104 - =R12+P4/2570		2015-12-16		
/5.c	Spis treści : =R12+P4/2580 - =R12+P4/4001		2015-12-16		
/7	Struktura sieci AKPIA		2015-12-10		
/10	Struktura sieci profibus		2015-12-15		
/11	Przegląd kabli : =+-120DP01W1 - =R12+P2-120NSA01W1.2		2015-12-16		
/11.a	Przegląd kabli : =R12+P2-120NSA01W2.2 - =R12+P4-LIA/03101W3.1		2015-12-16		
/11.b	Przegląd kabli : =R12+P4-LIA/10001W3.1 - =OB3A+P4-LIA/03101W4.1		2015-12-16		
=R12+P1/20	Zasilanie 400V		2015-12-15		
=R12+P1/30	Zasilanie 400V		2015-12-15		
=R12+P1/50	Gniazda 400V		2015-12-15		
=R12+P1/60	Oświetlenie		2015-12-15		
=R12+P1/70	Wentylacja szafy		2015-12-15		
=R12+P1/80	PLC		2015-12-15		
=R12+P1/85	Widok pola P1		2015-12-16		
=R12+P1/86	Widok skrzynki sterowania lokalnego typ 1		2015-12-16		
=R12+P1/87	Widok skrzynki sterowania lokalnego typ 2		2015-12-16		
=R12+P2/90	Zasilanie gwarantowane		2015-12-15		
=R12+P2/95	Wyłącznik p.poż		2015-12-15		
=R12+P2/100	Zasilanie 24V DC		2015-12-16		
=R12+P2/101	Zasilanie 24V DC		2015-12-16		
=R12+P2/105	Zasilanie sterownicze 24V DC		2015-12-16		
=R12+P2/106	Zasilanie sterownicze 24V DC		2015-12-16		
=R12+P2/110	Zasilanie 230V AC		2015-12-15		
=R12+P2/301	TR2 Zasilanie		2015-12-15		
=R12+P2/401	Szafka zasilająco-sterownicza zgarniacza zgrzeblowego osadu Zasilanie		2015-12-15		
=R12+P2/501	Pompa 031NSA01 Zasilanie		2015-12-15		
=R12+P2/502	Pompa 031NSA01 Sterowanie		2015-12-15		
=R12+P2/503	Pompa 031NSA01 PLC		2015-12-15		

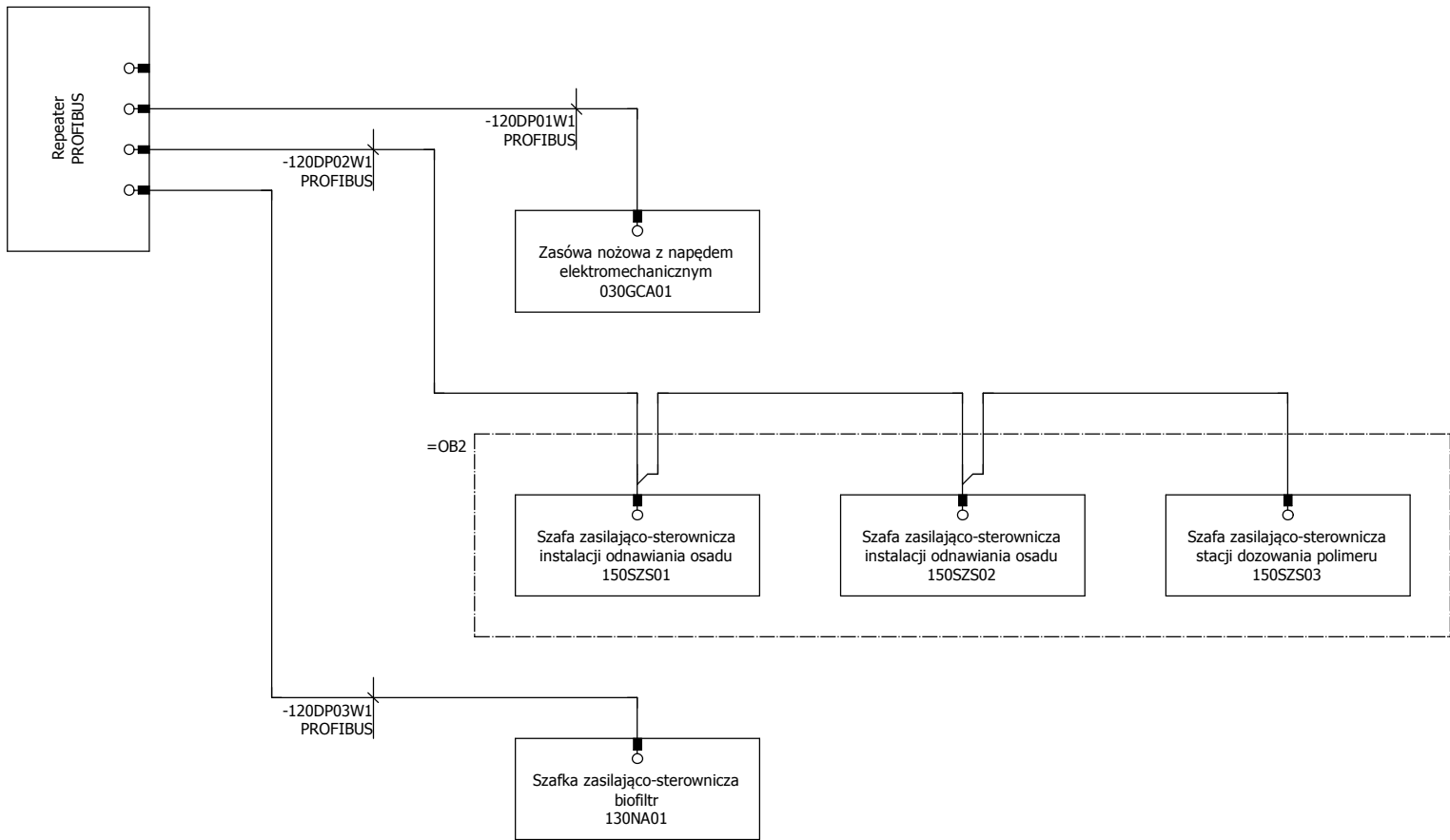
Spis treści

Strona	Opis stron	Dodatkowe pole strony	Data	Opracował	X
=R12+P2/511	Pompa 031NSA02 Zasilanie		2015-12-15		
=R12+P2/512	Pompa 031NSA02 Sterowanie		2015-12-15		
=R12+P2/513	Pompa 031NSA02 PLC		2015-12-15		
=R12+P2/601	Mieszadło prętowe 100NA01 Zasilanie		2015-12-15		
=R12+P2/602	Mieszadło prętowe 100NA01 Sterowanie		2015-12-15		
=R12+P2/603	Mieszadło prętowe 100NA01 PLC		2015-12-15		
=R12+P2/701	Mieszadło zatapialne 110NA01 Zasilanie		2015-12-15		
=R12+P2/702	Mieszadło zatapialne 110NA01 Sterowanie		2015-12-15		
=R12+P2/703	Mieszadło zatapialne 110NA01 PLC		2015-12-15		
=R12+P2/801	Pompa rotacyjna flotatu 120NSA01 Zasilanie		2015-12-15		
=R12+P2/802	Pompa rotacyjna flotatu 120NSA01 Sterowanie		2015-12-15		
=R12+P2/803	Pompa rotacyjna flotatu 120NSA01 PLC		2015-12-15		
=R12+P2/811	Pompa rotacyjna flotatu 120NSA02 Zasilanie		2015-12-15		
=R12+P2/812	Pompa rotacyjna flotatu 120NSA02 Sterowanie		2015-12-15		
=R12+P2/813	Pompa rotacyjna flotatu 120NSA02 PLC		2015-12-15		
=R12+P2/901	Macerator 120NA01 Zasilanie		2015-12-15		
=R12+P2/902	Macerator 120NA01 Sterowanie		2015-12-15		
=R12+P2/903	Macerator 120NA01 PLC		2015-12-15		
=R12+P2/911	Macerator 120NA02 Zasilanie		2015-12-15		
=R12+P2/912	Macerator 120NA02 Sterowanie		2015-12-15		
=R12+P2/913	Macerator 120NA02 PLC		2015-12-15		
=R12+P2/1001	Pompa odwadniająca Zasilanie		2015-12-15		
=R12+P2/1301	Mieszadło 12NSA03 Zasilanie		2015-12-15		
=R12+P2/1302	Mieszadło 12NSA03 Sterowanie		2015-12-15		
=R12+P2/1303	Mieszadło 12NSA03 PLC		2015-12-15		
=R12+P2/1401	Zasuwy nożowe Zasilanie		2015-12-15		
=R12+P2/1501	Grzejniki Zasilanie		2015-12-15		
=R12+P2/1511	Wentylacja Zasilanie		2015-12-15		
=R12+P2/1512	Wentylacja Zasilanie		2015-12-14		
=R12+P2/9000	Wiodk szafy		2015-12-10		
=R12+P3/1101	Pompa rotacyjna 120NCA01 Zasilanie		2015-12-15		
=R12+P3/1102	Pompa rotacyjna 120NCA01 Sterowanie		2015-12-15		
=R12+P3/1103	Pompa rotacyjna 120NCA01 Sterowanie		2015-12-15		

Spis treści

Strona	Opis stron	Dodatkowe pole strony	Data	Opracował	X
=R12+P3/1104	Pompa rotacyjna 120NCA01 PLC		2015-12-14		
=R12+P3/1111	Pompa rotacyjna 120NCA02 Zasilanie		2015-12-15		
=R12+P3/1112	Pompa rotacyjna 120NCA02 Sterowanie		2015-12-15		
=R12+P3/1113	Pompa rotacyjna 120NCA02 Sterowanie		2015-12-15		
=R12+P3/1114	Pompa rotacyjna 120NCA02 PLC		2015-12-14		
=R12+P3/1121	Pompa rotacyjna 120NCA03 Zasilanie		2015-12-15		
=R12+P3/1122	Pompa rotacyjna 120NCA03 Sterowanie		2015-12-15		
=R12+P3/1123	Pompa rotacyjna 120NCA03 Sterowanie		2015-12-15		
=R12+P3/1124	Pompa rotacyjna 120NCA03 PLC		2015-12-14		
=R12+P3/1131	Pompa rotacyjna 120NCA04 Zasilanie		2015-12-15		
=R12+P3/1132	Pompa rotacyjna 120NCA04 Sterowanie		2015-12-15		
=R12+P3/1133	Pompa rotacyjna 120NCA04 Sterowanie		2015-12-15		
=R12+P3/1134	Pompa rotacyjna 120NCA04 PLC		2015-12-14		
=R12+P3/1201	Szafka zasilająco-sterownicza biofiltr Zasilanie		2015-12-15		
=R12+P3/2000	Wiodk szafy		2015-12-15		
=R12+P4/2001	Zasilanie		2015-12-16		
=R12+P4/2004	Sygnały szafa automatyki		2015-12-16		
=R12+P4/2100	Zasilanie sterownika		2015-12-16		
=R12+P4/2110	Zasilanie sterownika		2015-12-16		
=R12+P4/2150	Zasilanie urządzeń komunikacyjnych		2015-12-16		
=R12+P4/2200	Ethernet - Sterownik		2015-12-15		
=R12+P4/2201	Ethernet - Switch02		2015-12-15		
=R12+P4/2250	Profibus DP - Sterownik		2015-12-14		
=R12+P4/2310	Sieć Profibus DP		2015-12-14		
=R12+P4/2320	Sieć Profibus DP		2015-12-14		
=R12+P4/2500	Pomiar przepływu FIQRC/02001 - zasilanie i komunikacja		2015-12-16		
=R12+P4/2510	Detektor H2S QE/02001 - zasilanie i sygnalizacja		2015-12-16		
=R12+P4/2520	Pomiar poziomu osadu LIA/03001 - zasilanie i komunikacja		2015-12-16		
=R12+P4/2530	Pomiar przepływu FIQRC/03001 - zasilanie i komunikacja		2015-12-16		
=R12+P4/2540	Pomiar poziomu LIA/03101 - zasilanie i komunikacja		2015-12-16		
=R12+P4/2550	Pomiar poziomu LIA/10001 - zasilanie i komunikacja		2015-12-16		
=R12+P4/2560	Pomiar poziomu LIA/11001 - zasilanie i komunikacja		2015-12-16		
=R12+P4/2570	Pomiar stężenia osadu DIR/12001, DIR/12002 - zasilanie i komunikacja		2015-12-16		





Przegląd kabli

Nazwa kabla	Źródło	Cel	Typ kabla	Nr Katalogowy	Numer strony	Długość kabla (m)
-120DP01W1	=+	=+	PROFIBUS		/10	
-120DP02W1	=+	=+	PROFIBUS		/10	
-120DP03W1	=+	=+	PROFIBUS		/10	
=OB12+P4-DIR/12001W4.1	=OB12+DIR/12001	=OB12+DIR/12001	Kabel fabryczny		=R12+P4/2570	
=OB12+P4-DIR/12002W4.1	=OB12+DIR/12001	=OB12+DIR/12002	Kabel fabryczny		=R12+P4/2570	
=OB12+P4-PIA/12001W3.2	=OB12+PP	=OB12+PIA/12001	3x0,75 mm²		=R12+P4/2590	
=OB12+P4-PIA/12002W3.2	=OB12+PP	=OB12+PIA/12002	3x0,75 mm²		=R12+P4/2600	
=OB12+P4-PIA/12003W3.2	=OB12+PP	=OB12+PIA/12003	YKSLYekw 3x0,75 mm²		=R12+P4/2610	
=OB12+P4-PIA/12004W3.2	=OB12+PP	=OB12+PIA/12004	YKSLYekw 3x0,75 mm²		=R12+P4/2620	
=OB12+P4-PIA/12005W3.2	=OB12+PP	=OB12+PIA/12005	YKSLYekw 3x0,75 mm²		=R12+P4/2640	
=OB12+P4-PIA/12006W3.2	=OB12+PP	=OB12+PIA/12006	YKSLYekw 3x0,75 mm²		=R12+P4/2650	
=OB12+P4-FIQR/12001W3.2	=OB12+FIQR/12001	=OB12+FIQR/12001	YKSLYekw 4x0,25 mm²		=R12+P4/2630	
=OB12+P4-FIQR/12001W3.3	=OB12+FIQR/12001	=OB12+FIQR/12001	YKSLYekw 3x0,75 mm²		=R12+P4/2630	
=OB12+P4-FIQR/12002W3.2	=OB12+FIQR/12002	=OB12+FIQR/12002	YKSLYekw 4x0,25 mm²		=R12+P4/2660	
=OB12+P4-FIQR/12002W3.3	=OB12+FIQR/12002	=OB12+FIQR/12002	YKSLYekw 3x0,75 mm²		=R12+P4/2660	
=R12+P1-120OSW01W1	=R12+P1	=R12+OSW01	YDYżo 3x1,5 mm²		=R12+P1/60	
=R12+P1-010ZG01W1	=R12+P1	=010+ZG1	YDYżo 5x6 mm²		=R12+P1/50	
=R12+P2-120G011W1	=R12+P2	=120+120G011	YDYżo 3x2,5 mm²		=R12+P2/1501	
=R12+P2-120G012W1	=R12+P2	=120+120G012	YDYżo 3x2,5 mm²		=R12+P2/1501	
=R12+P2-120G020W1	=R12+P2	=120+120G020	YDYżo 3x2,5 mm²		=R12+P2/1501	
=R12+P2-030GCA01W1.1	=030+030GCA01	=R12+P2	YKYżo 4x2,5 mm²		=R12+P2/1401	
=R12+P2-120N1.011W1.1	=R12+P2	=R12+P2	YKY 3x1.5 mm²		=R12+P2/1512	
=R12+P2-120N1.012W1.1	=R12+P2	=R12+P2	YKY 3x1.5 mm²		=R12+P2/1512	
=R12+P2-100NA01W1.1	=100+100NA01SL	=R12+P2	YKYżo 4x2.5 mm²		=R12+P2/601	
=R12+P2-100NA01W1.1.1	=100+100NA01SL	=100+100NA01	YKYżo 4x2.5 mm²		=R12+P2/601	
=R12+P2-100NA01W1.2	=R12+P2	=100+100NA01	YKSY 7x1 mm²		=R12+P2/601	
=R12+P2-100NA01W2.2	=R12+P2	=100+100NA01SL	YKSY 16x1 mm²		=R12+P2/601	
=R12+P2-110NA01W1.1	=110+110NA01SL	=R12+P2	YKYżo 4x2.5 mm²		=R12+P2/701	
=R12+P2-110NA01W1.1.1	=110+110NA01SL	=110+110NA01	YKYżo 4x2.5 mm²		=R12+P2/701	
=R12+P2-110NA01W1.2	=110+110NA01	=R12+P2	YKSY 7x1 mm²		=R12+P2/701	
=R12+P2-110NA01W2.2	=R12+P2	=110+110NA01SL	YKSY 16x1 mm²		=R12+P2/701	
=R12+P2-120NA01W1.1	=120+120NA01SL	=R12+P2	YKYżo 4x2.5 mm²		=R12+P2/901	
=R12+P2-120NA01W1.1.1	=120+120NA01SL	=120+120NA01	YKYżo 4x2.5 mm²		=R12+P2/901	
=R12+P2-120NA01W1.2	=R12+P2	=120+120NA01	YKSY 7x1 mm²		=R12+P2/901	
=R12+P2-120NA01W2.2	=R12+P2	=120+120NA01SL	YKSY 16x1 mm²		=R12+P2/901	
=R12+P2-120NA02W1.1	=120+120NA02SL	=R12+P2	YKYżo 4x2.5 mm²		=R12+P2/911	
=R12+P2-120NA02W1.1.1	=120+120NA02SL	=120+120NA02	YKYżo 4x2.5 mm²		=R12+P2/911	
=R12+P2-120NA02W1.2	=R12+P2	=120+120NA02	YKSY 7x1 mm²		=R12+P2/911	
=R12+P2-120NA02W2.2	=R12+P2	=120+120NA02SL	YKSY 16x1 mm²		=R12+P2/911	
=R12+P2-031NSA01W1.1	=031+031NSA01SL	=R12+P2	YKYżo 4x2.5 mm²		=R12+P2/501	
=R12+P2-031NSA01W1.1.1	=031+031NSA01SL	=031+031NSA01	YKYżo 4x2.5 mm²		=R12+P2/501	
=R12+P2-031NSA01W1.2	=031+031NSA01	=R12+P2	YKSY 7x1 mm²		=R12+P2/501	
=R12+P2-031NSA01W2.2	=R12+P2	=031+031NSA01SL	YKSY 16x1 mm²		=R12+P2/501	
=R12+P2-120NSA01W1.1	=120+120NSA01SL	=R12+P2	YKYżo 4x2.5 mm²		=R12+P2/801	
=R12+P2-120NSA01W1.1.1	=120+120NSA01SL	=120+120NSA01	YKYżo 4x2.5 mm²		=R12+P2/801	
=R12+P2-120NSA01W1.2	=R12+P2	=120+120NSA01	YKSY 7x1 mm²		=R12+P2/801	

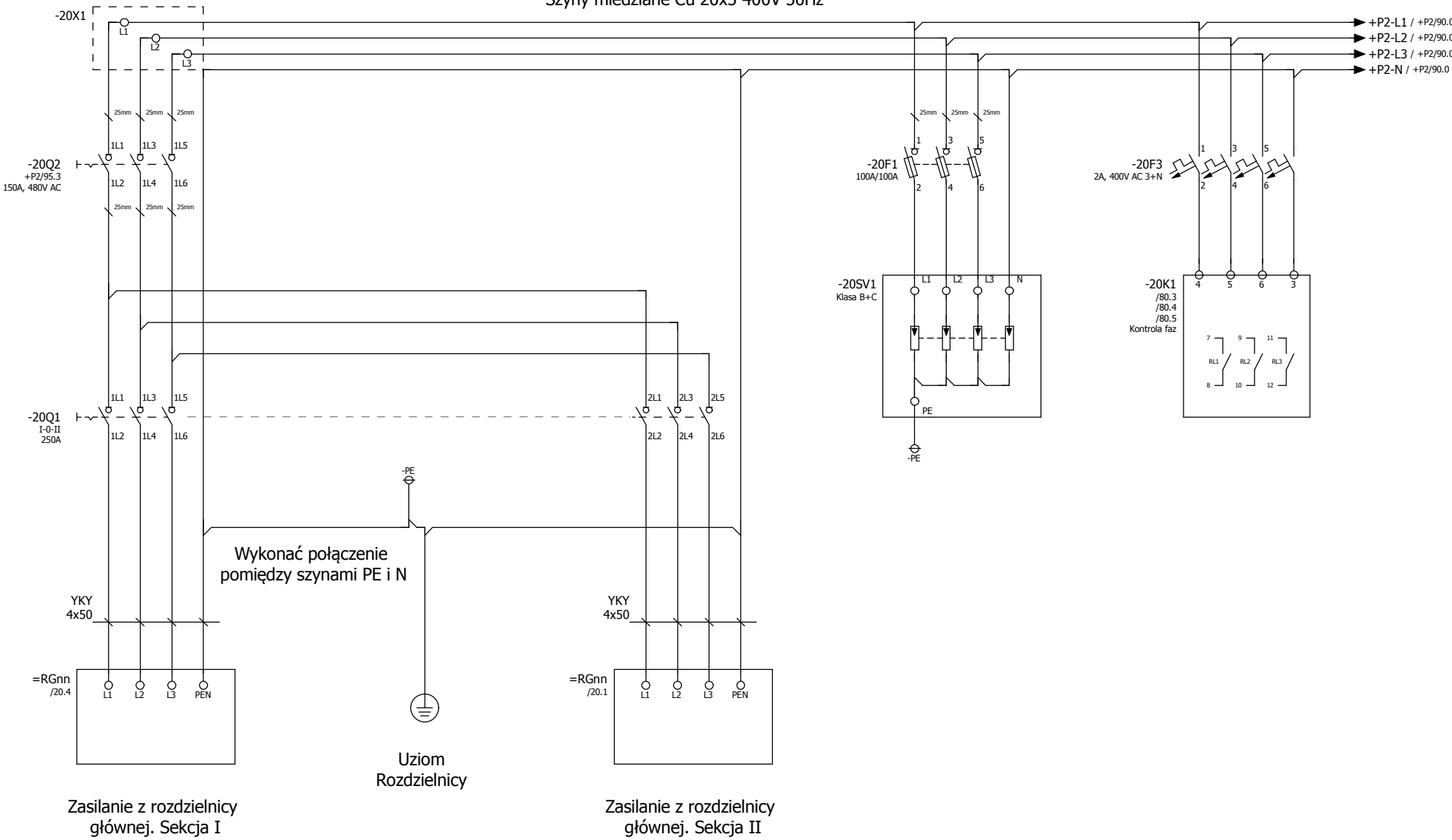
Przegląd kabli

Nazwa kabla	Źródło	Cel	Typ kabla	Nr Katalogowy	Numer strony	Długość kabla (m)
=R12+P2-120NSA01W2.2	=R12+P2	=120+120NSA01SL	YKSY 16x1 mm ²		=R12+P2/801	
=R12+P2-031NSA02W1.1	=031+031NSA02SL	=R12+P2	YKYżo 4x2.5 mm ²		=R12+P2/511	
=R12+P2-031NSA02W1.1.1	=031+031NSA02SL	=031+031NSA02	YKYżo 4x2.5 mm ²		=R12+P2/511	
=R12+P2-031NSA02W1.2	=031+031NSA02	=R12+P2	YKSY 7x1 mm ²		=R12+P2/511	
=R12+P2-031NSA02W2.2	=R12+P2	=031+031NSA02SL	YKSY 16x1 mm ²		=R12+P2/511	
=R12+P2-120NSA02W1.1	=120+120NSA02SL	=R12+P2	YKYżo 4x2.5 mm ²		=R12+P2/811	
=R12+P2-120NSA02W1.1.1	=120+120NSA02SL	=120+120NSA02	YKYżo 4x2.5 mm ²		=R12+P2/811	
=R12+P2-120NSA02W1.2	=R12+P2	=120+120NSA02	YKSY 7x1 mm ²		=R12+P2/811	
=R12+P2-120NSA02W2.2	=R12+P2	=120+120NSA02SL	YKSY 16x1 mm ²		=R12+P2/811	
=R12+P2-120NSA03W1.1	=120+120NSA03SL	=R12+P2	YKYżo 4x4 mm ²		=R12+P2/1301	
=R12+P2-120NSA03W1.1.1	=120+120NSA03SL	=120+120NSA03	YKYżo 4x4 mm ²		=R12+P2/1301	
=R12+P2-120NSA03W1.2	=120+120NSA03	=R12+P2	YKSY 7x1 mm ²		=R12+P2/1301	
=R12+P2-120NSA03W2.2	=R12+P2	=120+120NSA03SL	YKSY 16x1 mm ²		=R12+P2/1301	
=R12+P2-120POM01W1.1	=120+120POM01	=R12+P2	YKYżo 4x2.5 mm ²		=R12+P2/1001	
=R12+P2-120S01W1	=R12+P2	=120+120S01	HDGs 4x1,5 mm ²		=R12+P2/95	
=R12+P2-030SZS01W2.3	=030+030SZS01	=R12+P2	YKSY 10x1 mm ²		=R12+P2/401	
=R12+P2-030SZS01W1.1	=030+030SZS01	=R12+P2	YKYżo 5x2.5 mm ²		=R12+P2/401	
=R12+P2-030SZS01W2.2	=030+030SZS01	=R12+P2	YKSY 10x1 mm ²		=R12+P2/401	
=R12+P2-020TR01W1.1	=020+020TR01	=R12+P2	YKYżo 5x25 mm ²		=R12+P2/301	
=R12+P2-120W1.100W1.1	=R12+P2	=R12+P2	YKYżo 3x1.5 mm ²		=R12+P2/1511	
=R12+P3-120NCA01W1.1	=R12+P3	=120+120NCA01SL	YKYekw(żo) 4x2.5 mm ²		=R12+P3/1101	
=R12+P3-120NCA01W1.1.1	=120+120NCA01SL	=120+120NCA01	YKYekw(żo) 4x2.5 mm ²		=R12+P3/1101	
=R12+P3-120NCA01W1.2	=R12+P3	=120+120NCA01	YKSY 7x1 mm ²		=R12+P3/1101	
=R12+P3-120NCA01W2.2	=R12+P3	=120+120NCA01SL	YKSY 16x1 mm ²		=R12+P3/1101	
=R12+P3-120NCA02W1.1	=R12+P3	=120+120NCA02SL	YKYekw(żo) 4x2.5 mm ²		=R12+P3/1111	
=R12+P3-120NCA02W1.1.1	=120+120NCA02SL	=120+120NCA02	YKYekw(żo) 4x2.5 mm ²		=R12+P3/1111	
=R12+P3-120NCA02W1.2	=R12+P3	=120+120NCA02	YKSY 7x1 mm ²		=R12+P3/1111	
=R12+P3-120NCA02W2.2	=R12+P3	=120+120NCA02SL	YKSY 16x1 mm ²		=R12+P3/1111	
=R12+P3-120NCA03W1.1	=R12+P3	=120+120NCA03SL	YKYekw(żo) 4x4 mm ²		=R12+P3/1121	
=R12+P3-120NCA03W1.1.1	=120+120NCA03SL	=120+120NCA03	YKYekw(żo) 4x4 mm ²		=R12+P3/1121	
=R12+P3-120NCA03W1.2	=R12+P3	=120+120NCA03	YKSY 7x1 mm ²		=R12+P3/1121	
=R12+P3-120NCA03W2.2	=R12+P3	=120+120NCA03SL	YKSY 16x1 mm ²		=R12+P3/1121	
=R12+P3-120NCA04W1.1	=R12+P3	=120+120NCA04SL	YKYekw(żo) 4x4 mm ²		=R12+P3/1131	
=R12+P3-120NCA04W1.1.1	=120+120NCA04SL	=120+120NCA04	YKYekw(żo) 4x4 mm ²		=R12+P3/1131	
=R12+P3-120NCA04W1.2	=R12+P3	=120+120NCA04	YKSY 7x1 mm ²		=R12+P3/1131	
=R12+P3-120NCA04W2.2	=R12+P3	=120+120NCA04SL	YKSY 16x1 mm ²		=R12+P3/1131	
=R12+P3-130SZS01W1.1	=130+130SZS01	=R12+P3	YKYżo 5x6 mm ²		=R12+P3/1201	
=R12+P4-DIR/12001W1.1	=R12+P4	=OB12+DIR/12001	YKYżo 3x1,5 mm ²		=R12+P4/2570	
=R12+P4-DIR/12001W3.1	=R12+P4	=OB12+DIR/12001	YKSLYekw 3x0,75 mm ²		=R12+P4/2570	
=R12+P4-DIR/12002W3.1	=R12+P4	=OB12+DIR/12001	YKSLYekw 3x0,75 mm ²		=R12+P4/2570	
=R12+P4-FIQRC/12001W1.1	=R12+P4	=OB12+FIQRC/12001	YKYżo 3x1,5 mm ²		=R12+P4/2630	
=R12+P4-FIQRC/12002W1.1	=R12+P4	=OB12+FIQRC/12002	YKYżo 3x1,5 mm ²		=R12+P4/2660	
=R12+P4-030GCA01WP1	=R12+P4	=OB3+P4	1x2x0,64 mm ²		=R12+P4/2310	
=R12+P4-LIA/03001W1.1	=R12+P4	=OB03+LIA/03001	YKYżo 3x1,5 mm ²		=R12+P4/2520	
=R12+P4-LIA/03001W3.1	=R12+P4	=OB03+LIA/03001	YKSLYekw 3x0,75 mm ²		=R12+P4/2520	
=R12+P4-LIA/03101W3.1	=R12+P4	=OB3A+PP	YKSLYekw 3x0,75 mm ²		=R12+P4/2540	

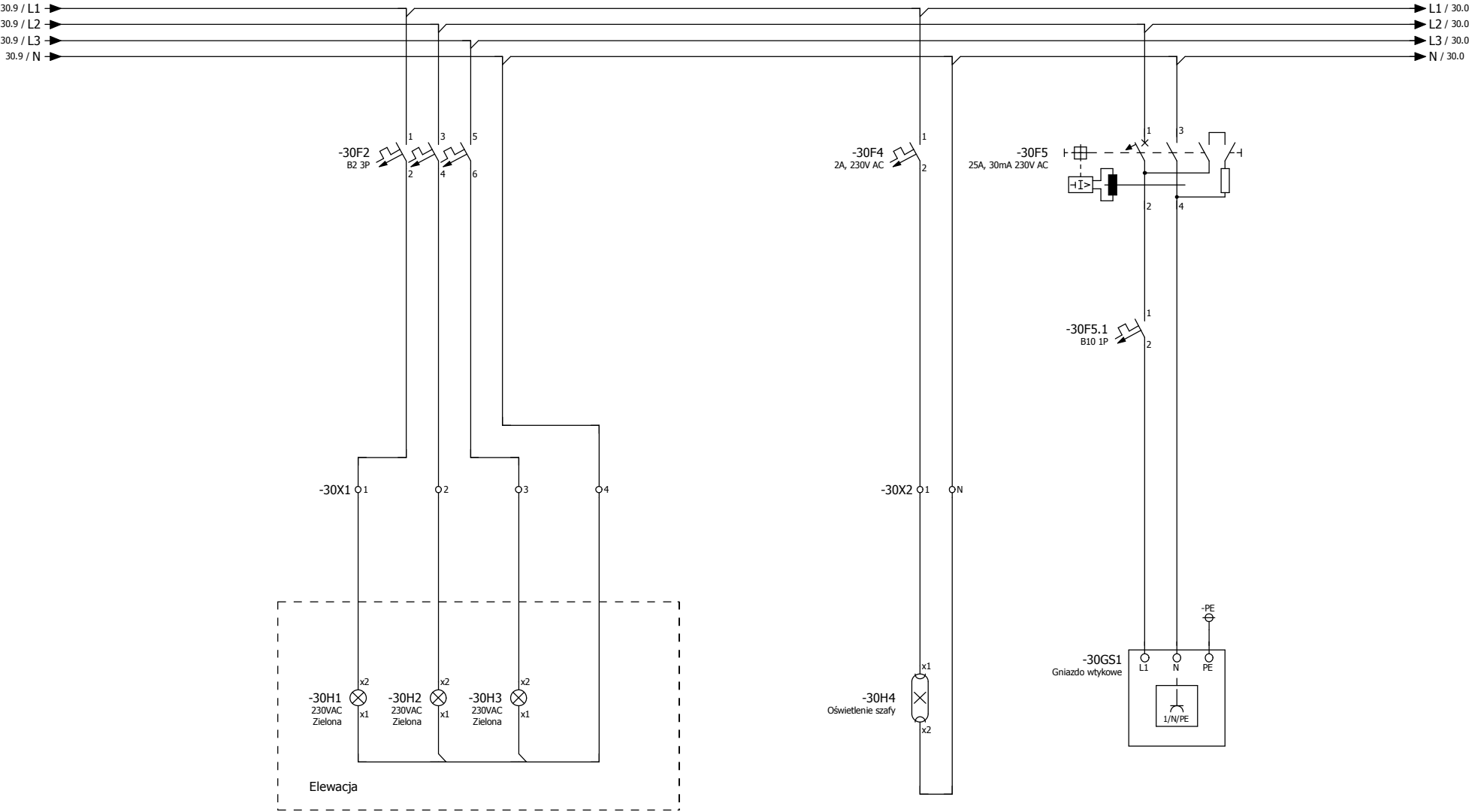
Przegląd kabli

Nazwa kabla	Źródło	Cel	Typ kabla	Nr Katalogowy	Numer strony	Długość kabla (m)
=R12+P4-LIA/10001W3.1	=R12+P4	=OB10+LIA/10001	YKSLYekw 3x0,75 mm²		=R12+P4/2550	
=R12+P4-LIA/11001W3.1	=R12+P4	=OB11+LIA/11001	YKSLYekw 3x0,75 mm²		=R12+P4/2560	
=R12+P4-LIA/12001W3.1	=R12+P4	=OB12+LIA/12001	YKSLYekw 3x0,75 mm²		=R12+P4/2580	
=R12+P4-130NA01WP1	=R12+P4	=OB13+P4	1x2x0,64 mm²		=R12+P4/2320	
=R12+P4-PIA/12001W3.1	=OB12+PP	=R12+P4	YKSLYekw 3x0,75 mm²		=R12+P4/2590	
=R12+P4-PIA/12002W3.1	=OB12+PP	=R12+P4	YKSLYekw 3x0,75 mm²		=R12+P4/2600	
=R12+P4-PIA/12003W3.1	=OB12+PP	=R12+P4	YKSLYekw 3x0,75 mm²		=R12+P4/2610	
=R12+P4-PIA/12004W3.1	=OB12+PP	=R12+P4	YKSLYekw 3x0,75 mm²		=R12+P4/2620	
=R12+P4-PIA/12005W3.1	=OB12+PP	=R12+P4	YKSLYekw 3x0,75 mm²		=R12+P4/2640	
=R12+P4-PIA/12006W3.1	=OB12+PP	=R12+P4	YKSLYekw 3x0,75 mm²		=R12+P4/2650	
=R12+P4-QE/02001W1.1	=R12+P4	=OB02+P4	YDY 3x1,5 mm²		=R12+P4/2510	
=R12+P4-QE/02001W1.2	=OB02+P4	=OB02+P4	YDY 3x1,5 mm²		=R12+P4/2510	
=R12+P4-QE/02001W2.1	=R12+P4	=OB02+P4	YKSY 7x1 mm²		=R12+P4/2510	
=R12+P4-QE/12001W1.1	=R12+P4	=OB12+P4	YDY 3x1,5 mm²		=R12+P4/2670	
=R12+P4-QE/12001W1.2	=OB12+P4	=OB12+P4	YDY 3x1,5 mm²		=R12+P4/2670	
=R12+P4-QE/12001W2.1	=R12+P4	=OB12+P4	YKSY 7x1 mm²		=R12+P4/2670	
=R12+P4-TR2WP2	=R12+P4	=OB??+P4	1x2x0,64 mm²		=R12+P4/2310	
=R12+P4-FIQRC/02001W1.1	=R12+P4	=OB02+FIQRC/02001	YKYzo 3x1,5 mm²		=R12+P4/2500	
=R12+P4-FIQRC/02001W2.1	=R12+P4	=OB02+FIQRC/02001	YKSY 3x0,75 mm²		=R12+P4/2500	
=R12+P4-FIQRC/02001W3.1	=R12+P4	=OB02+FIQRC/02001	YKSLYekw 3x0,75 mm²		=R12+P4/2500	
=R12+P4-FIQRC/03001W1.1	=R12+P4	=OB03+FIQRC/03001	YKYzo 3x1,5 mm²		=R12+P4/2530	
=R12+P4-FIQRC/03001W2.1	=R12+P4	=OB03+FIQRC/03001	YKSY 3x0,75 mm²		=R12+P4/2530	
=R12+P4-FIQRC/03001W3.1	=R12+P4	=OB03+FIQRC/03001	YKSLYekw 3x0,75 mm²		=R12+P4/2530	
=R12+P4-FIQRC/12001W2.1	=R12+P4	=OB12+FIQRC/12001	YKSY 3x0,75 mm²		=R12+P4/2630	
=R12+P4-FIQRC/12001W3.1	=R12+P4	=OB12+FIQRC/12001	YKSLYekw 3x0,75 mm²		=R12+P4/2630	
=R12+P4-FIQRC/12002W2.1	=R12+P4	=OB12+FIQRC/12002	YKSY 3x0,75 mm²		=R12+P4/2660	
=R12+P4-FIQRC/12002W3.1	=R12+P4	=OB12+FIQRC/12002	YKSLYekw 3x0,75 mm²		=R12+P4/2660	
=R12+P4-QE/02001W2.2	=OB02+P4	=OB02+P4	YDY 5x0,5 mm²		=R12+P4/2510	
=R12+P4-QE/02001W3.1	=OB02+P4	=OB02+P4	YDY 4x1 mm²		=R12+P4/2510	
=R12+P4-QE/12001W2.2	=OB12+P4	=OB9+P4	YDY 5x0,5 mm²		=R12+P4/2670	
=R12+P4-QE/12001W3.1	=OB12+P4	=OB9+P4	YDY 4x1 mm²		=R12+P4/2670	
=R12+P4-WK1	=OB12+Przełącznica	=STACJA_TRAFO+Przełącznica	A-DO(ZN)BZY 50/125		=R12+P4/2200	
=R12+P4-WK3	=OB1+Przełącznica	=OB12+Przełącznica	A-DO(ZN)BZY 50/125		=R12+P4/2200	
=OB02+P4-FIQRC/02001W3.2	=OB02+FIQRC/02001	=OB02+FIQRC/02001	YKSLYekw 4x0,25 mm²		=R12+P4/2500	
=OB02+P4-FIQRC/02001W3.3	=OB02+FIQRC/02001	=OB02+FIQRC/02001	YKSLYekw 3x0,75 mm²		=R12+P4/2500	
=OB03+P4-LIA/03001W4.1	=OB03+LIA/03001	=OB03+LIA/03001	Kabel fabryczny		=R12+P4/2520	
=OB03+P4-FIQRC/03001W3.2	=OB03+FIQRC/03001	=OB03+FIQRC/03001	YKSLYekw 4x0,25 mm²		=R12+P4/2530	
=OB03+P4-FIQRC/03001W3.3	=OB03+FIQRC/03001	=OB03+FIQRC/03001	YKSLYekw 3x0,75 mm²		=R12+P4/2530	
=OB3A+P4-LIA/03101W4.1	=OB3A+PP	=OB3A+LIA/03101	Kabel fabryczny		=R12+P4/2540	

Szyny miedziane Cu 20x5 400V 50Hz



Szyny miedziane Cu 20x5 400V 50Hz



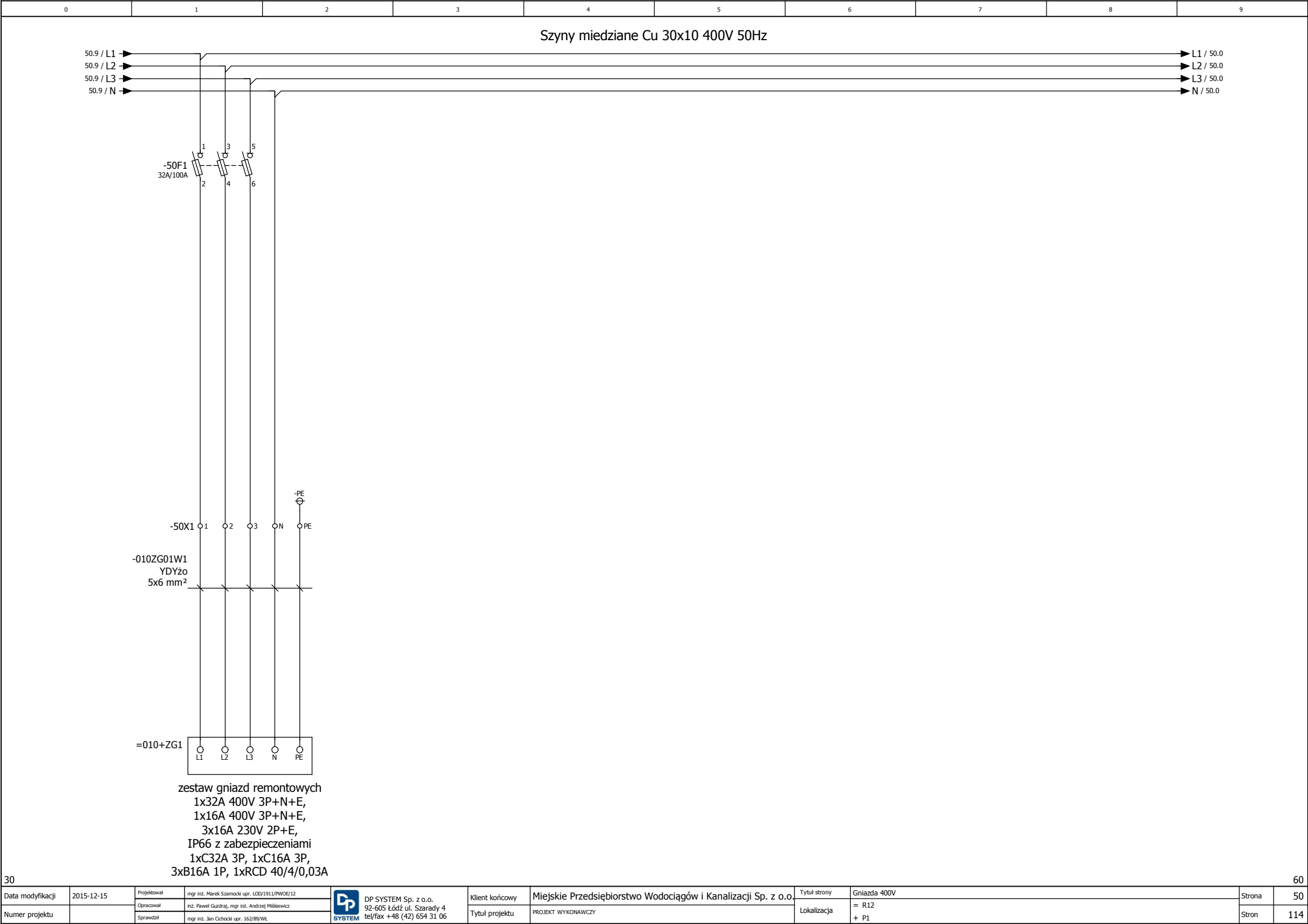
Ochrona
przepięciowa

Sygnalizacja
obecności faz

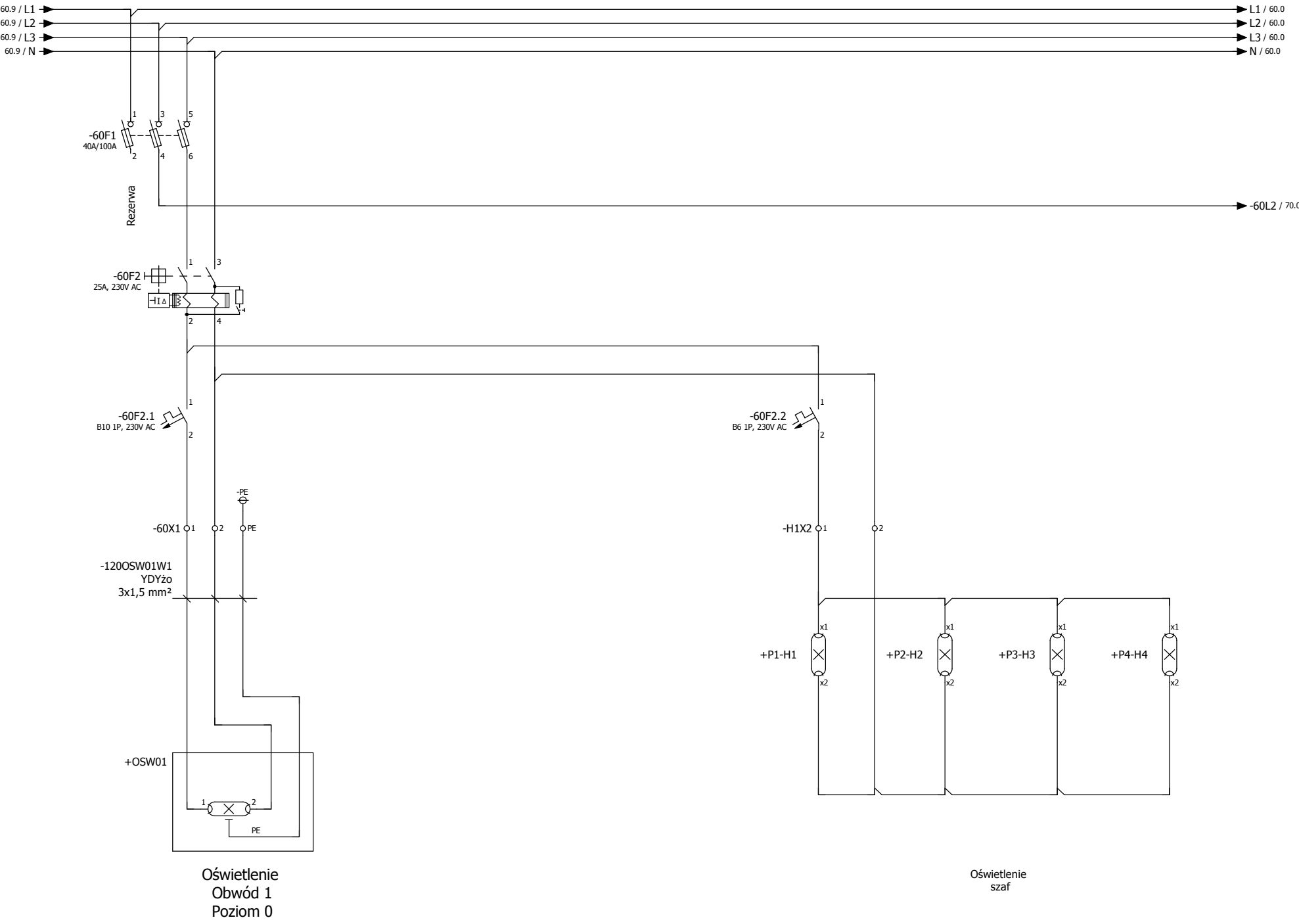
Sygnalizacja
zaniku faz
do systemu

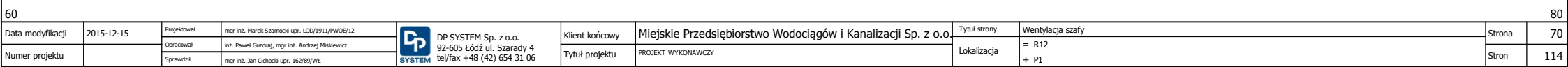
Oświetlenie
rozdzielniczy

Gniazdo
serwisowe



Szyny miedziane Cu 30x10 400V 50Hz

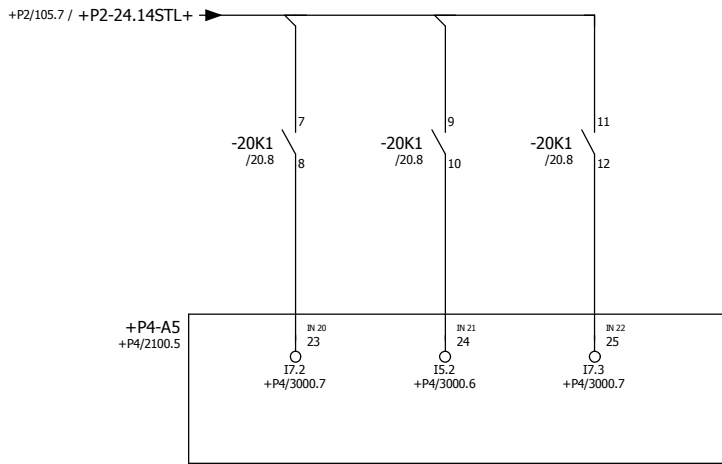


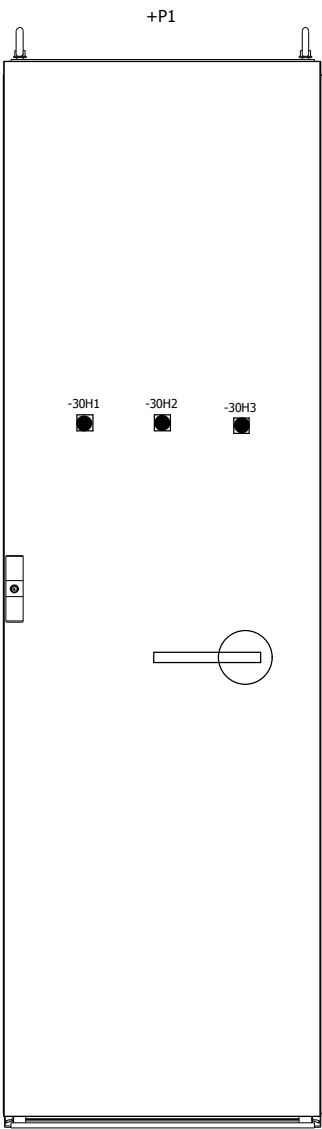
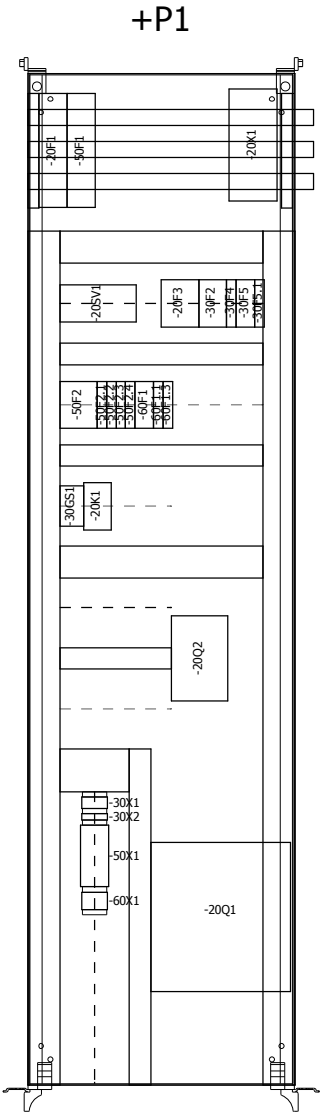


R12
Obecność
Faza L1

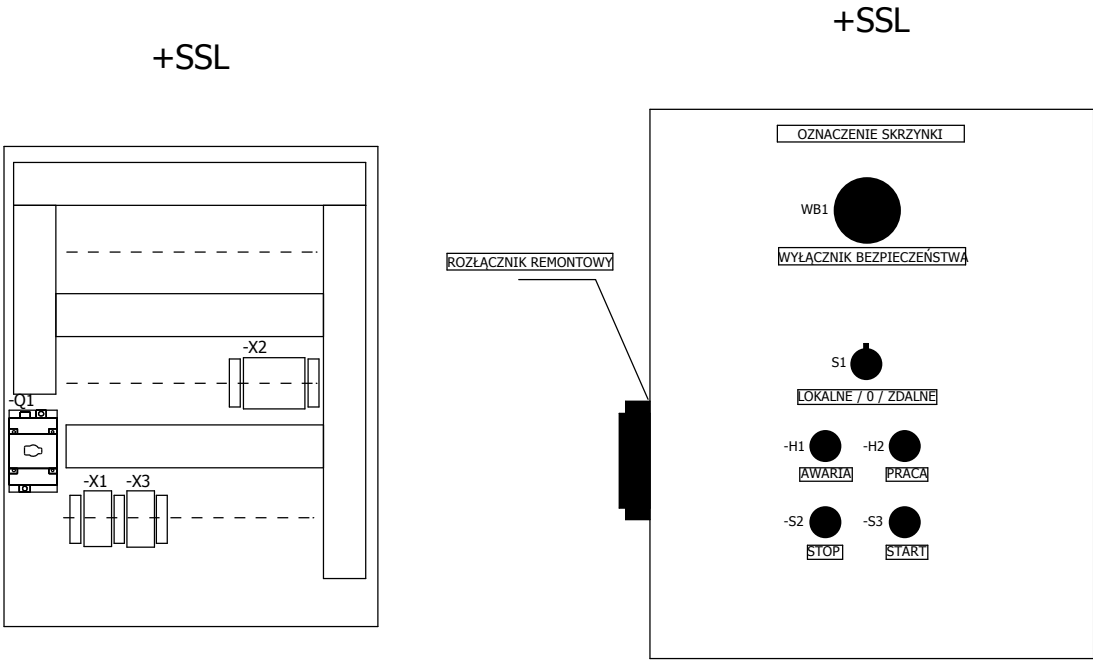
R12
Obecność
Faza L2

R12
Obecność
Faza L3

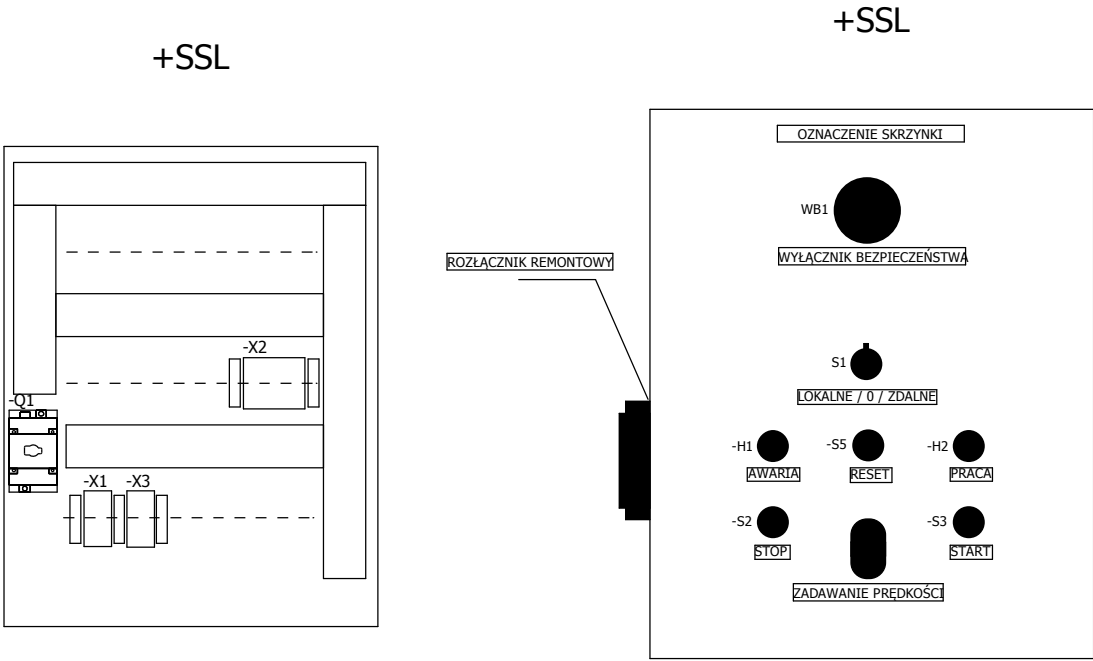


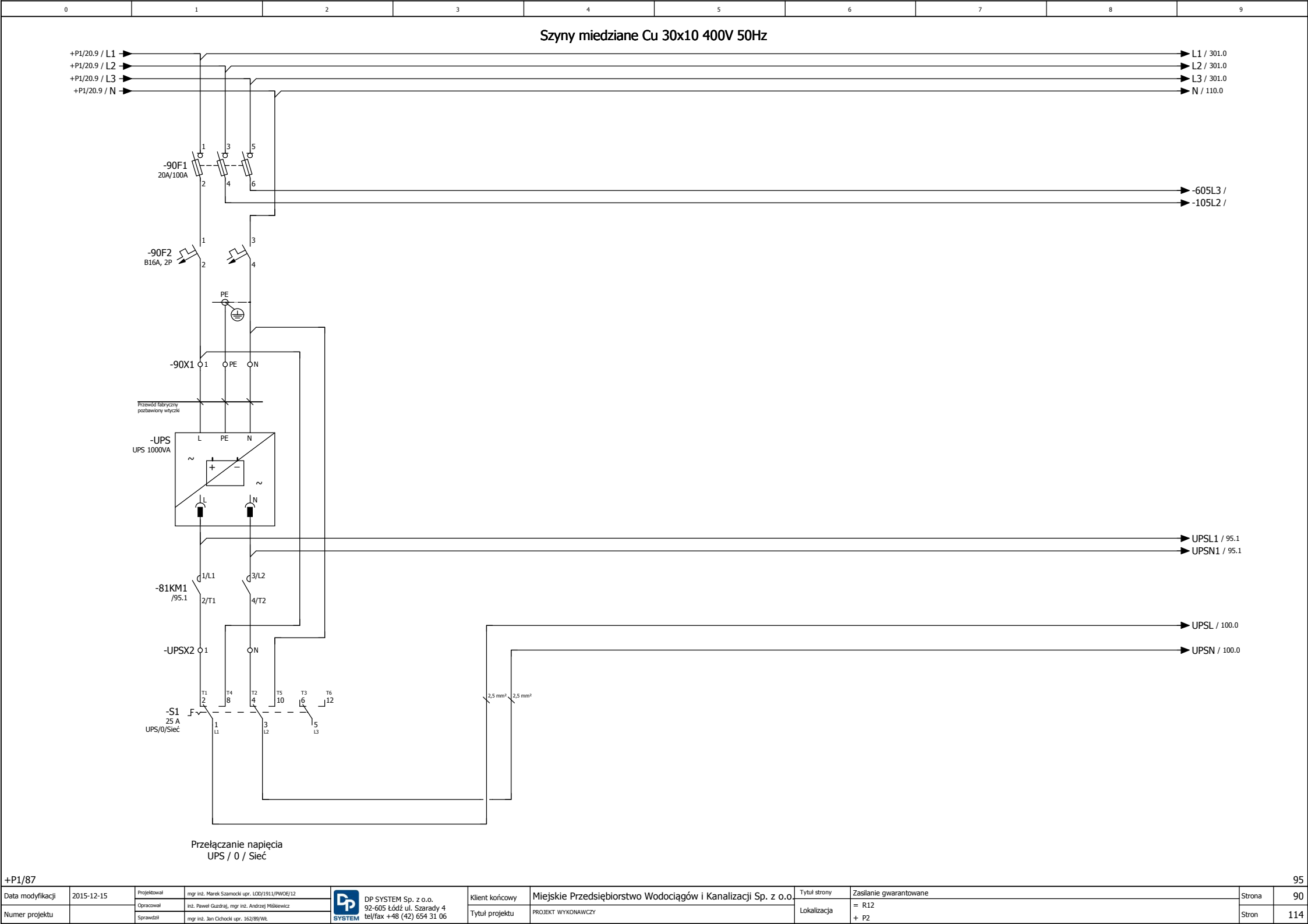


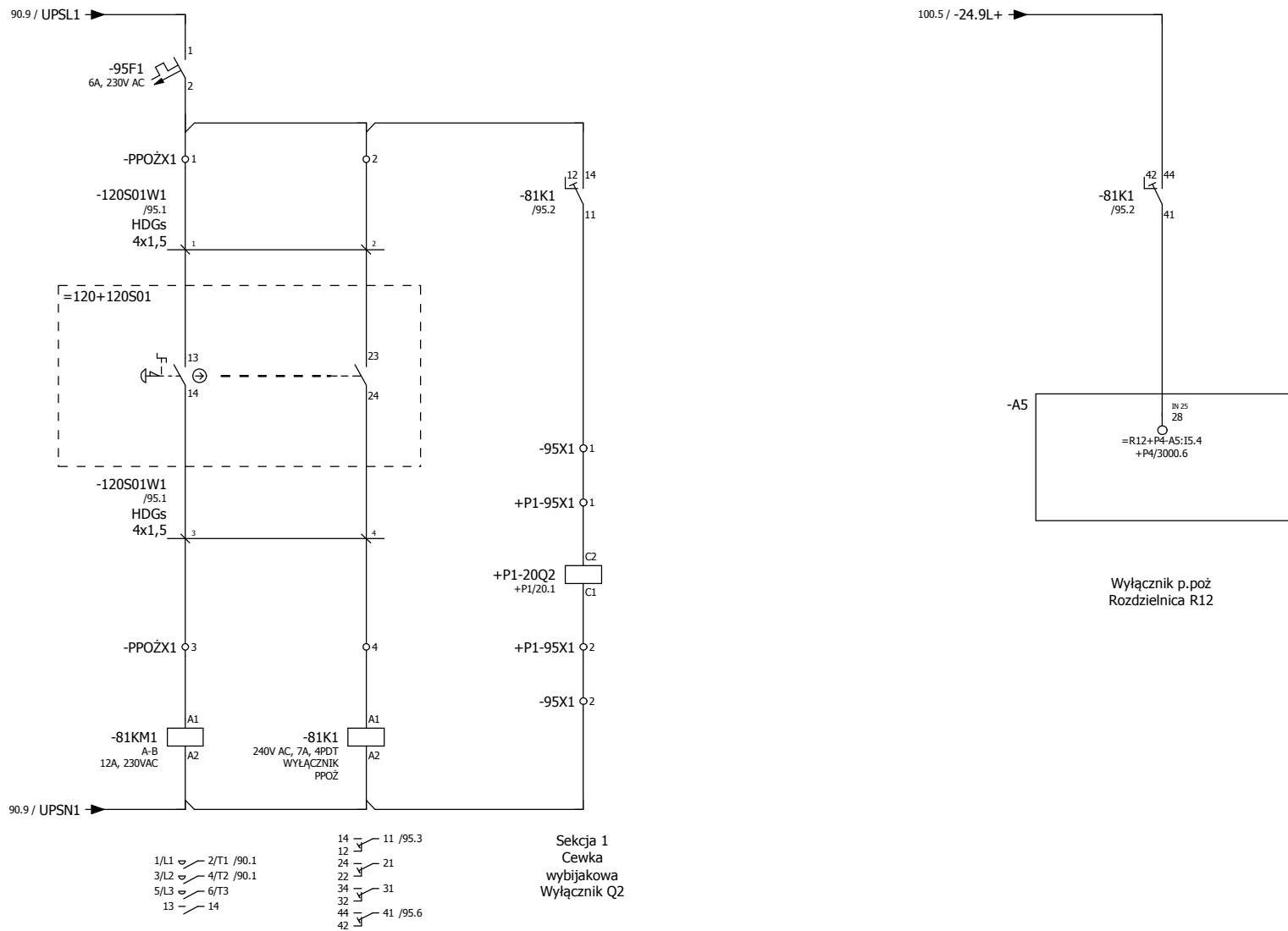
SKRZYNKI STEROWANIA LOKALNEGO DO NAPĘDÓW O ROZRUCHU BEZPOŚREDNIM

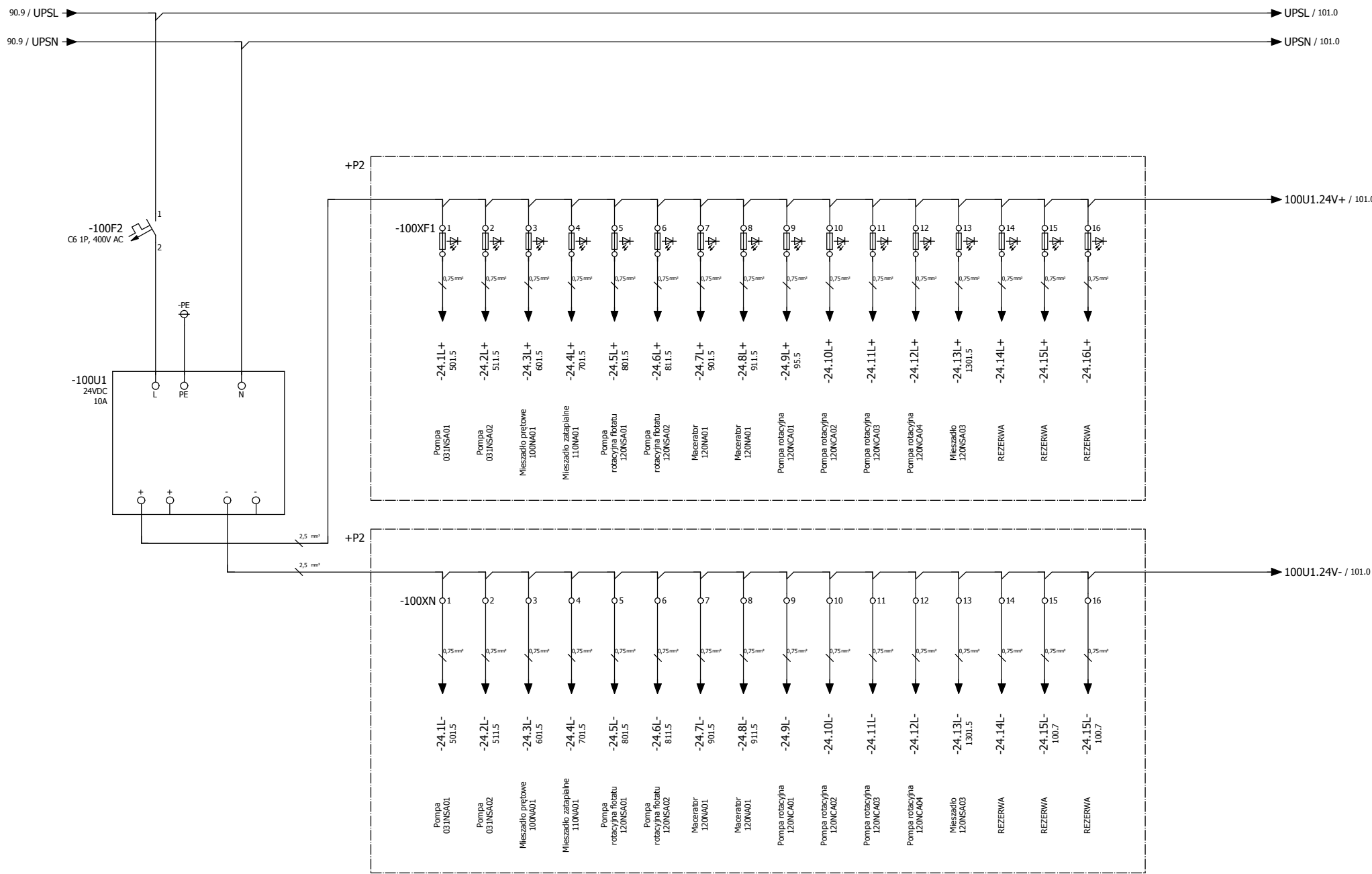


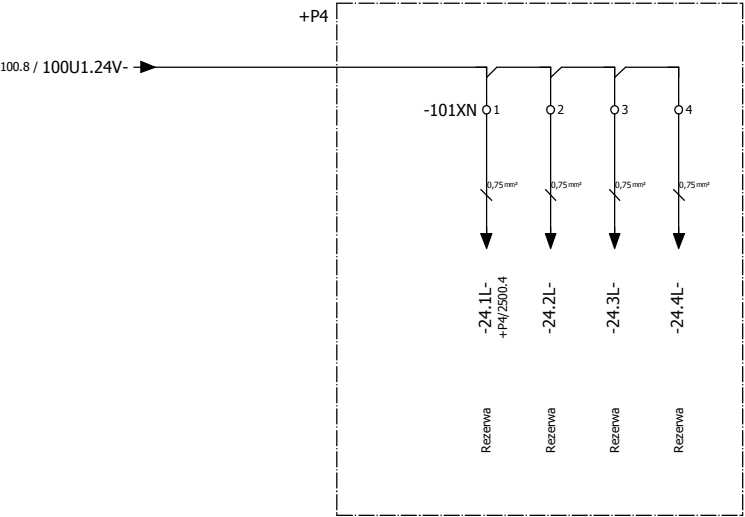
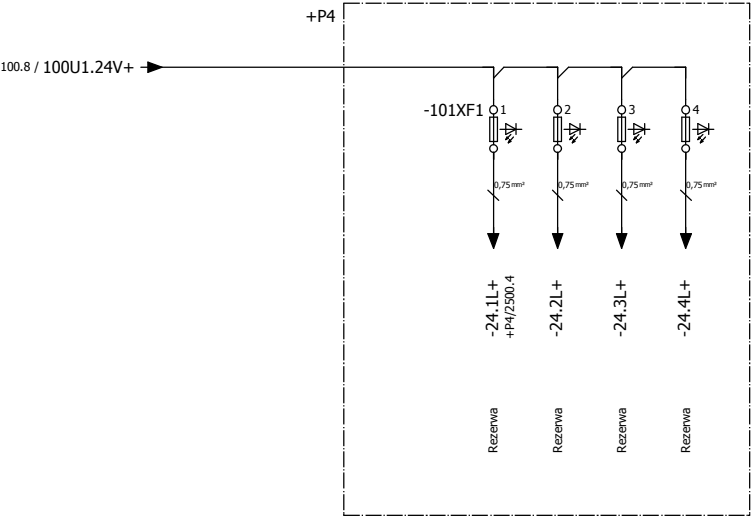
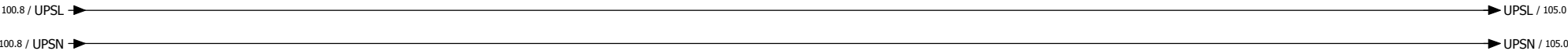
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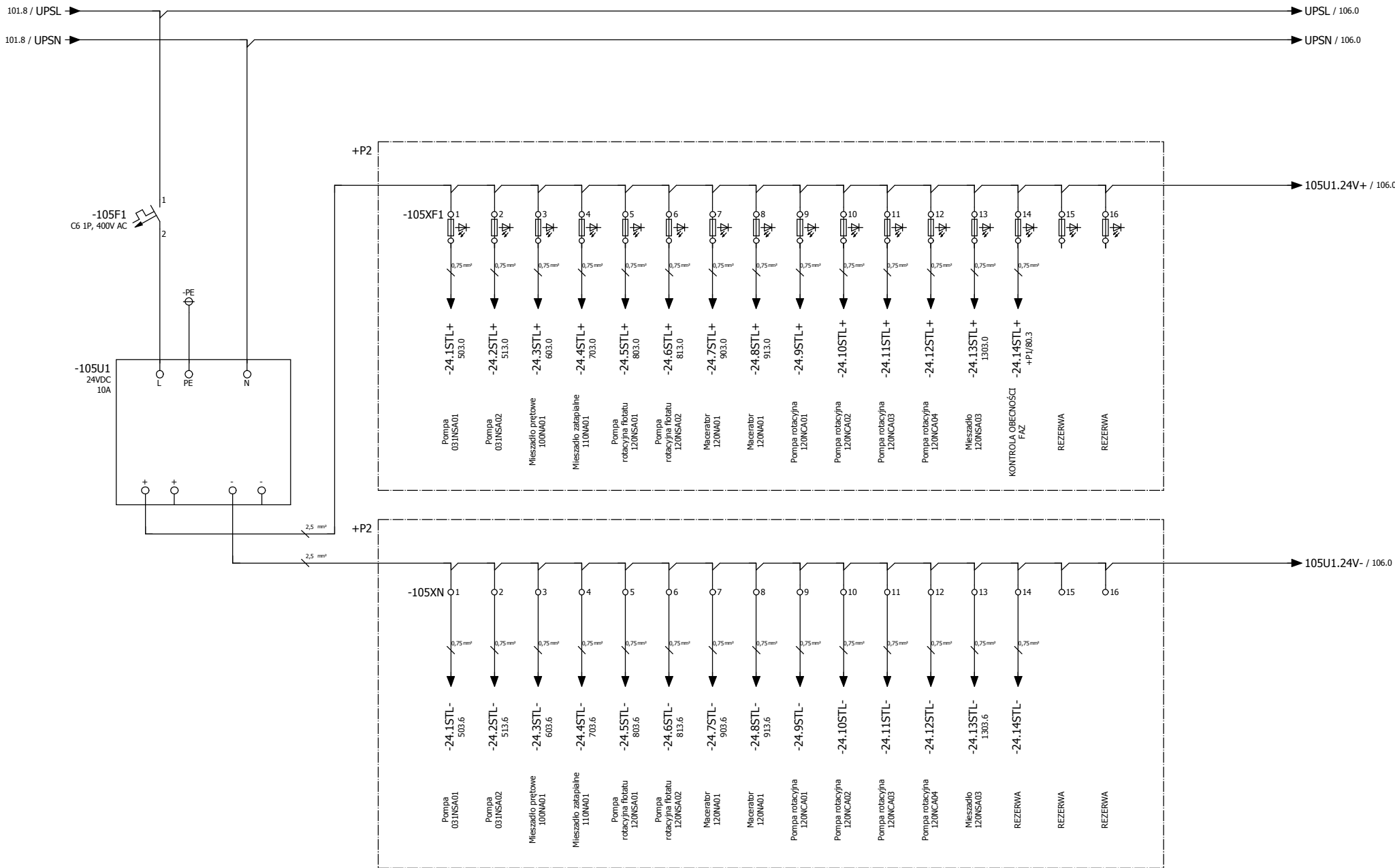


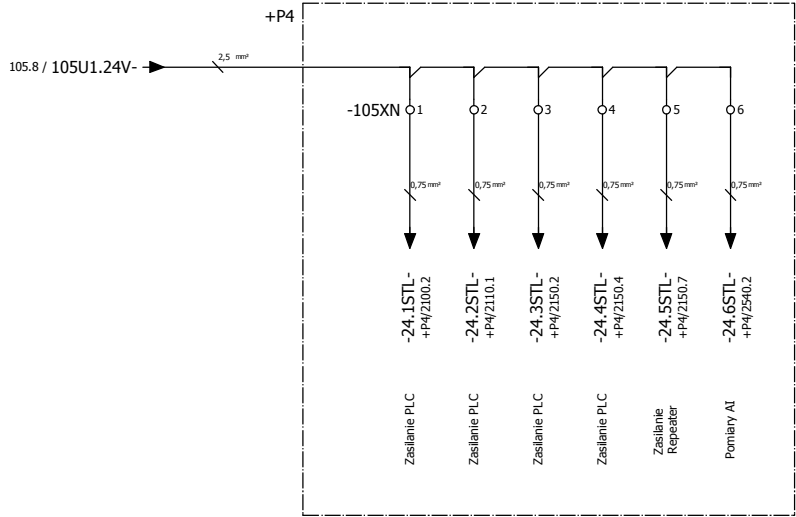
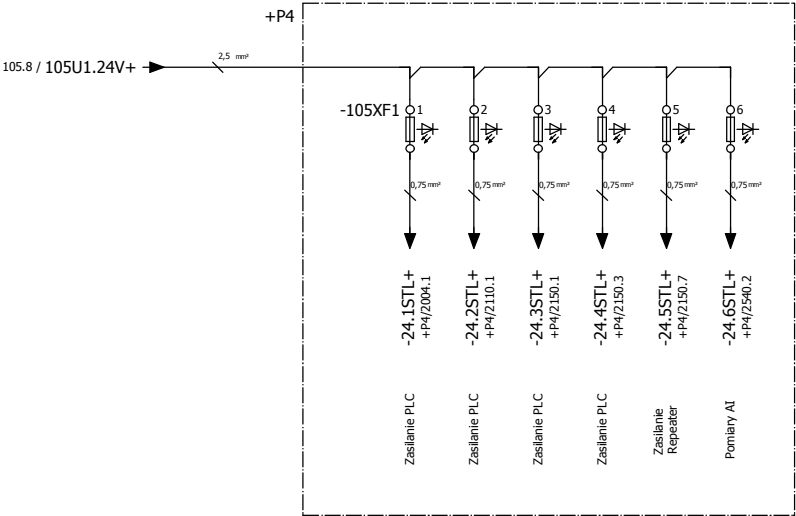
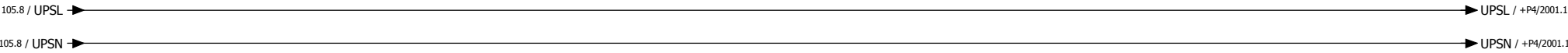












90.9 / N

N / 301.0

/ 110L3

-110F1
B2 1P, 400V AC

1

2

L1

-110T1
230/230 V 250VA

-PE

2,5 mm²

2,5 mm²

+P2

-110XF1

1

2

3

4

5

6

7

8

9

10

11

12

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

-230_1L

501.3

-230_2L

511.3

-230_3L

602.7

-230_4L

701.3

-230_5L

802.7

-230_6L

812.7

-230_7L

902.7

-230_8L

912.7

-230_9L

1301.3

Pompa
031NSA01

Pompa
031NSA02

Mieszadło piętrowe
100NA01

Mieszadło zatapialne
110NA01

Pompa
rotacyjna zatap.
120NSA01

Pompa
rotacyjna zatap.
120NSA02

Macerator
120NA01

Macerator
120NA01

Mieszadło
120NSA03

REZERWA

REZERWA

REZERWA

+P2

-110XN

1

2

3

4

5

6

7

8

9

10

11

12

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

0,75 mm²

-230_1N

501.3

-230_2N

511.3

-230_3N

602.7

-230_4N

701.3

-230_5N

802.7

-230_6N

812.7

-230_7N

902.7

-230_8N

912.7

-230_9N

1301.3

Pompa
031NSA01

Pompa
031NSA02

Mieszadło piętrowe
100NA01

Mieszadło zatapialne
110NA01

Pompa
rotacyjna zatap.
120NSA01

Pompa
rotacyjna zatap.
120NSA02

Macerator
120NA01

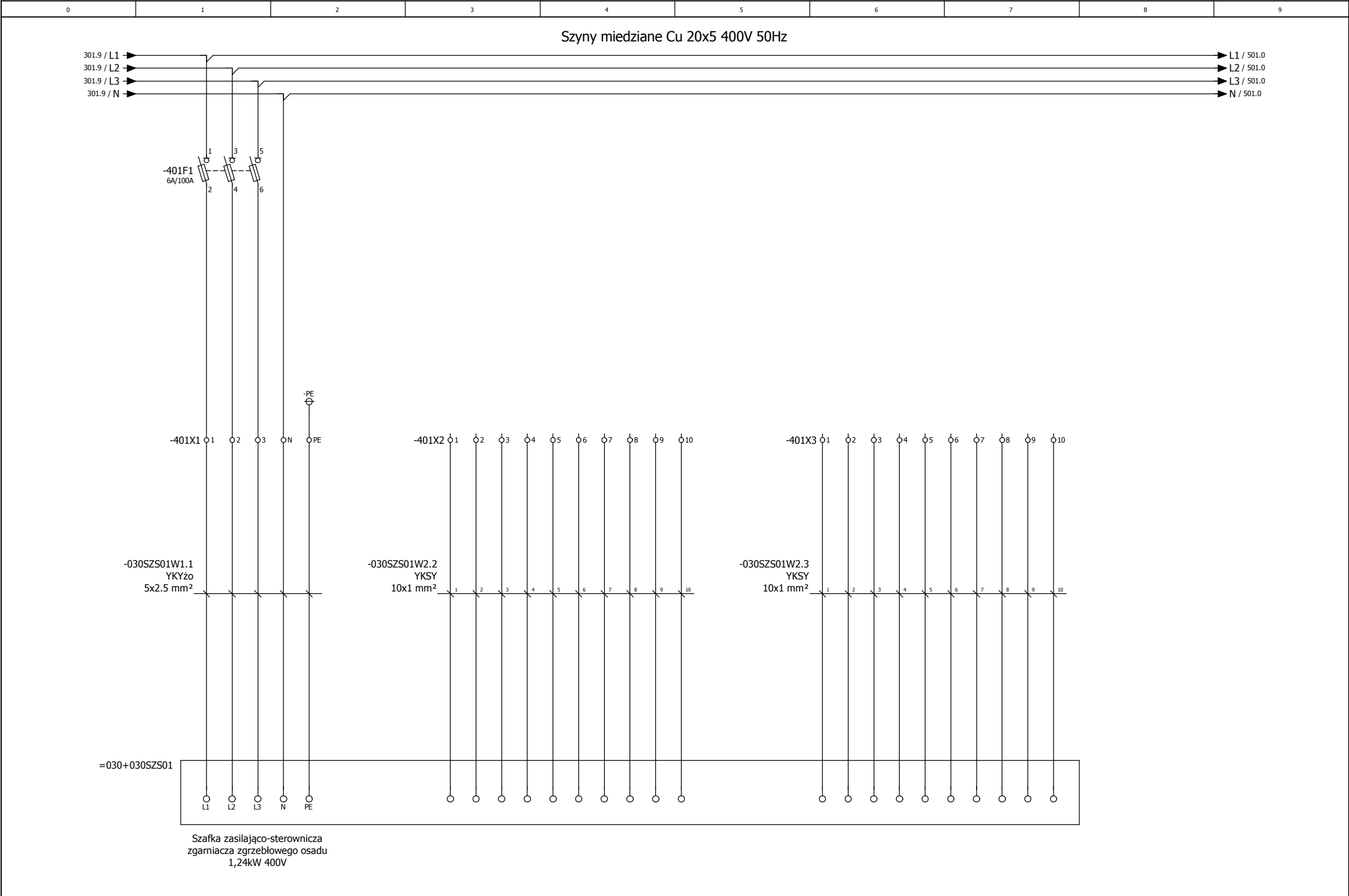
Macerator
120NA01

Mieszadło
120NSA03

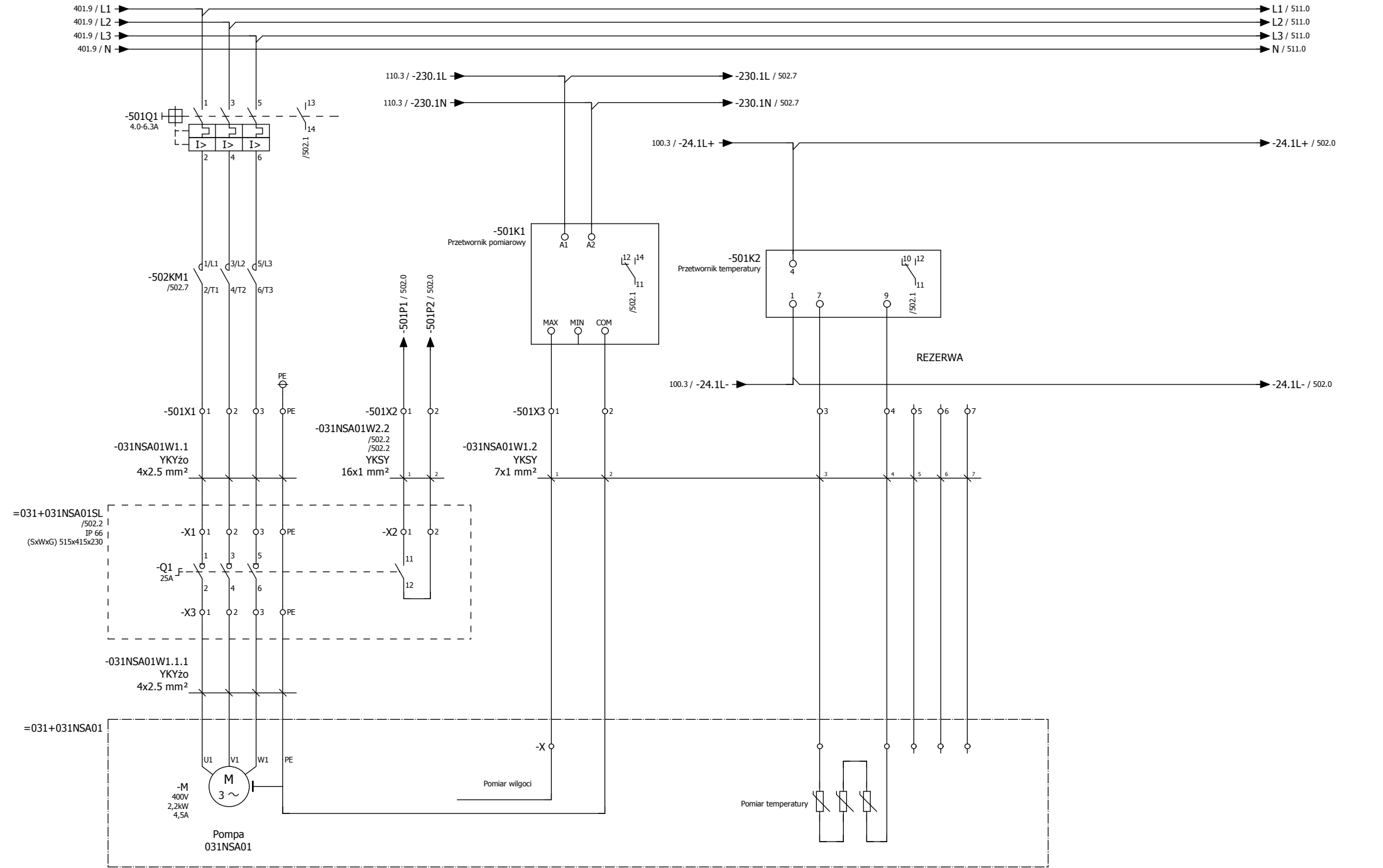
REZERWA

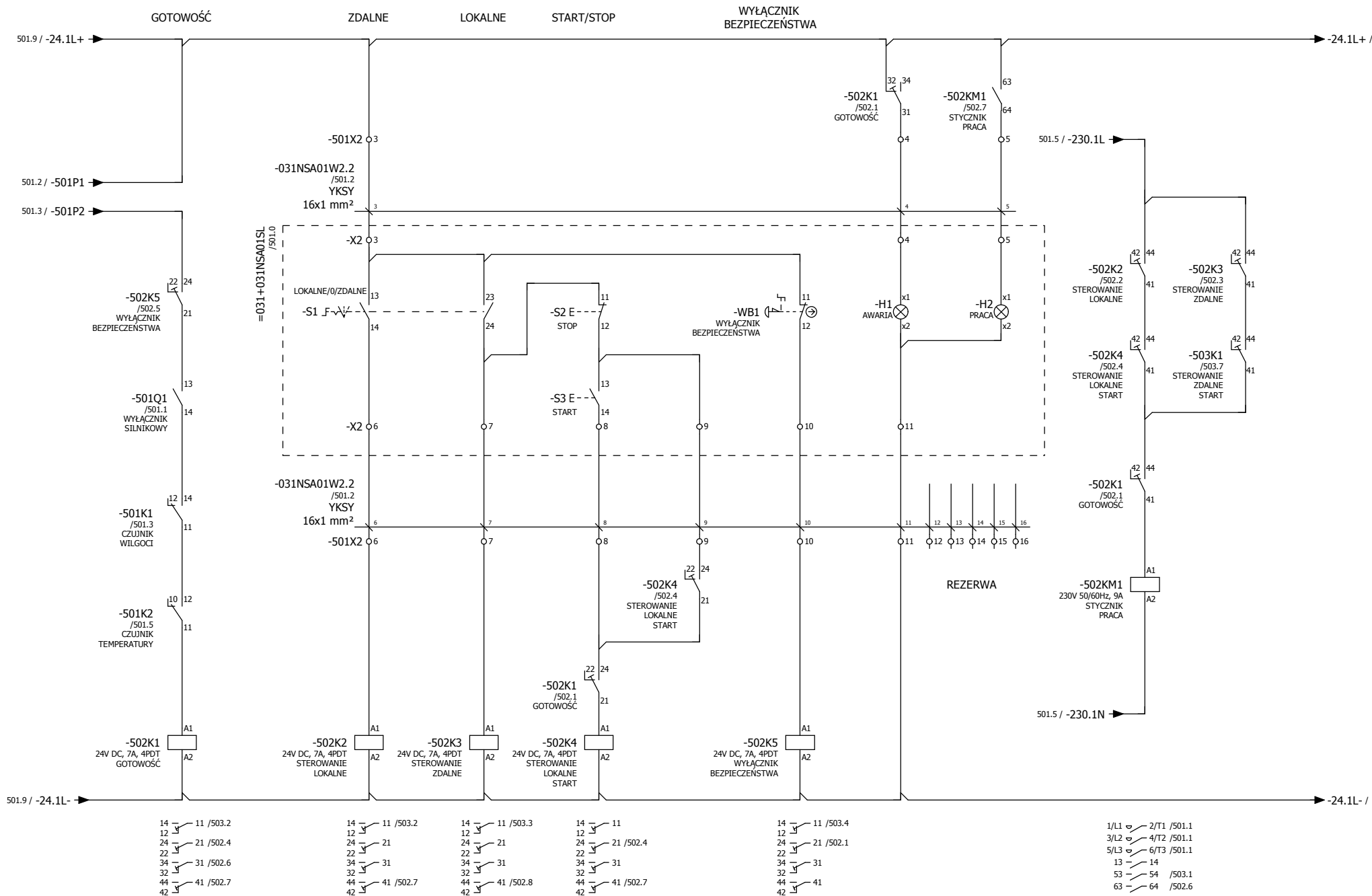
REZERWA

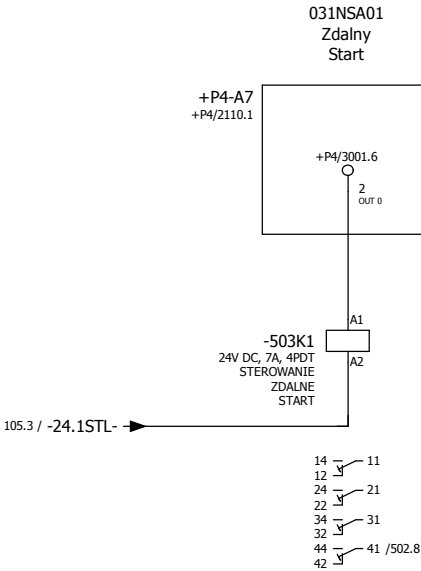
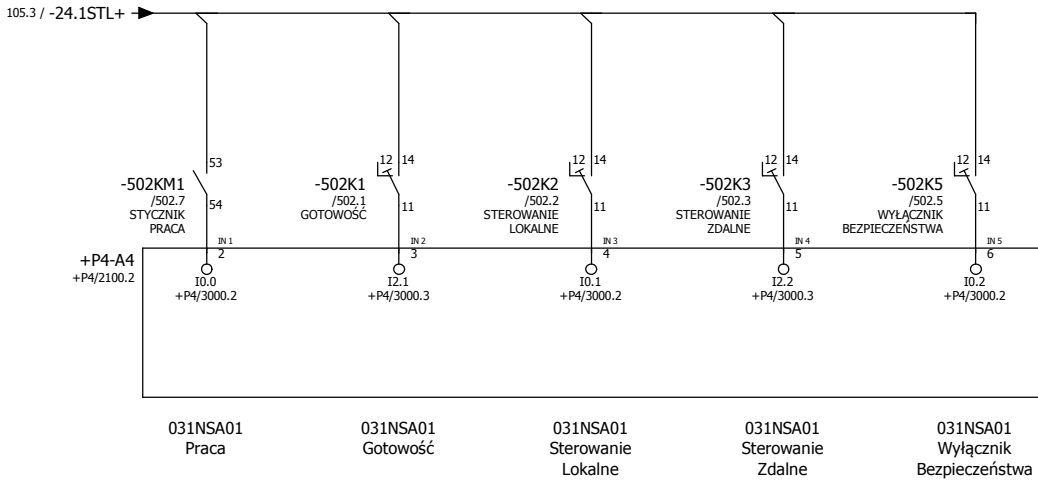
REZERWA

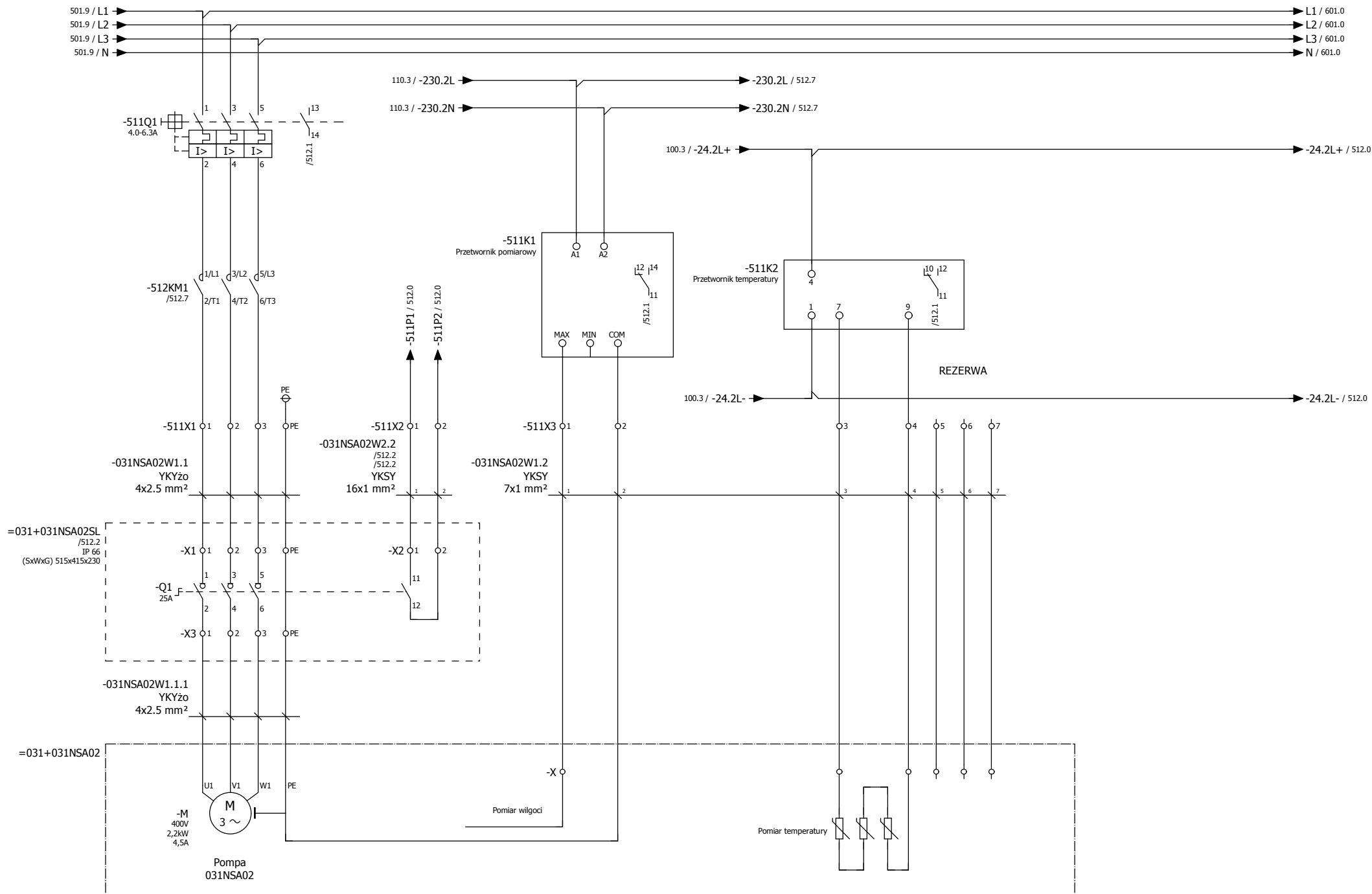


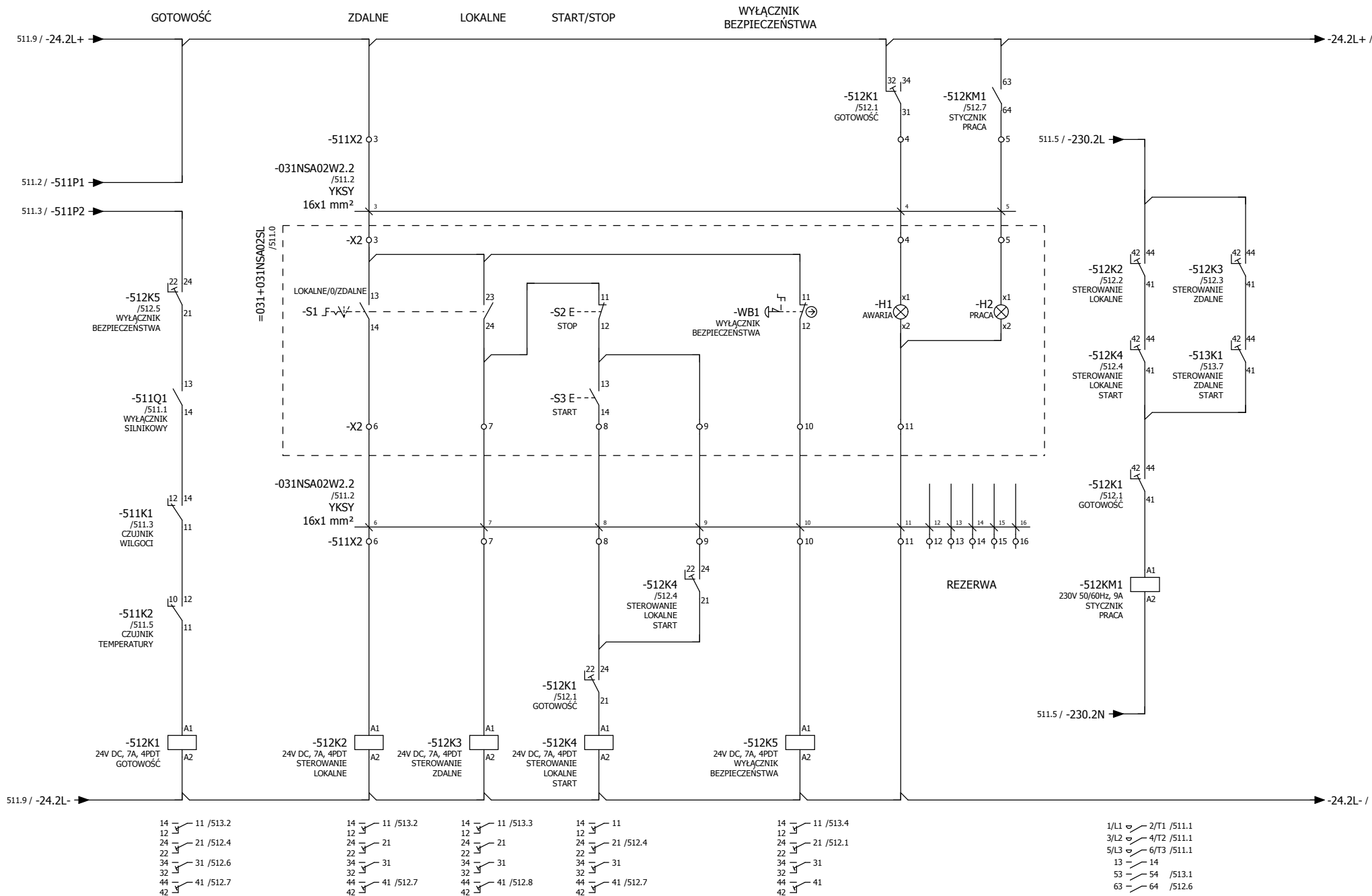
Szyny miedziane Cu 20x5 400V 50Hz

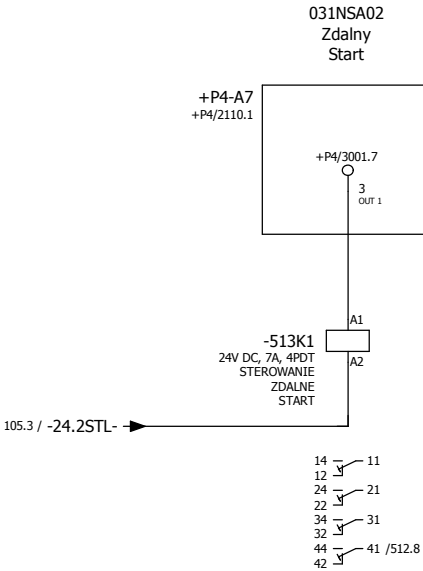
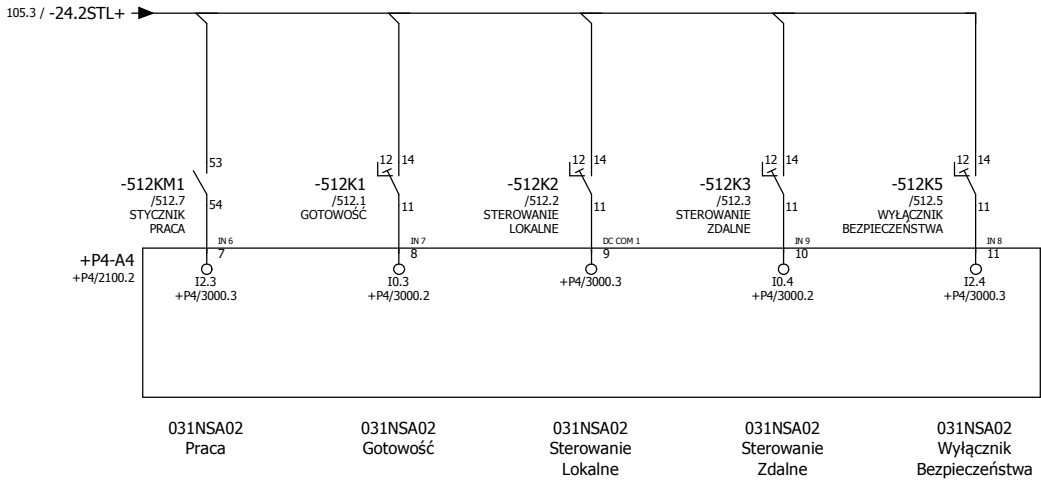




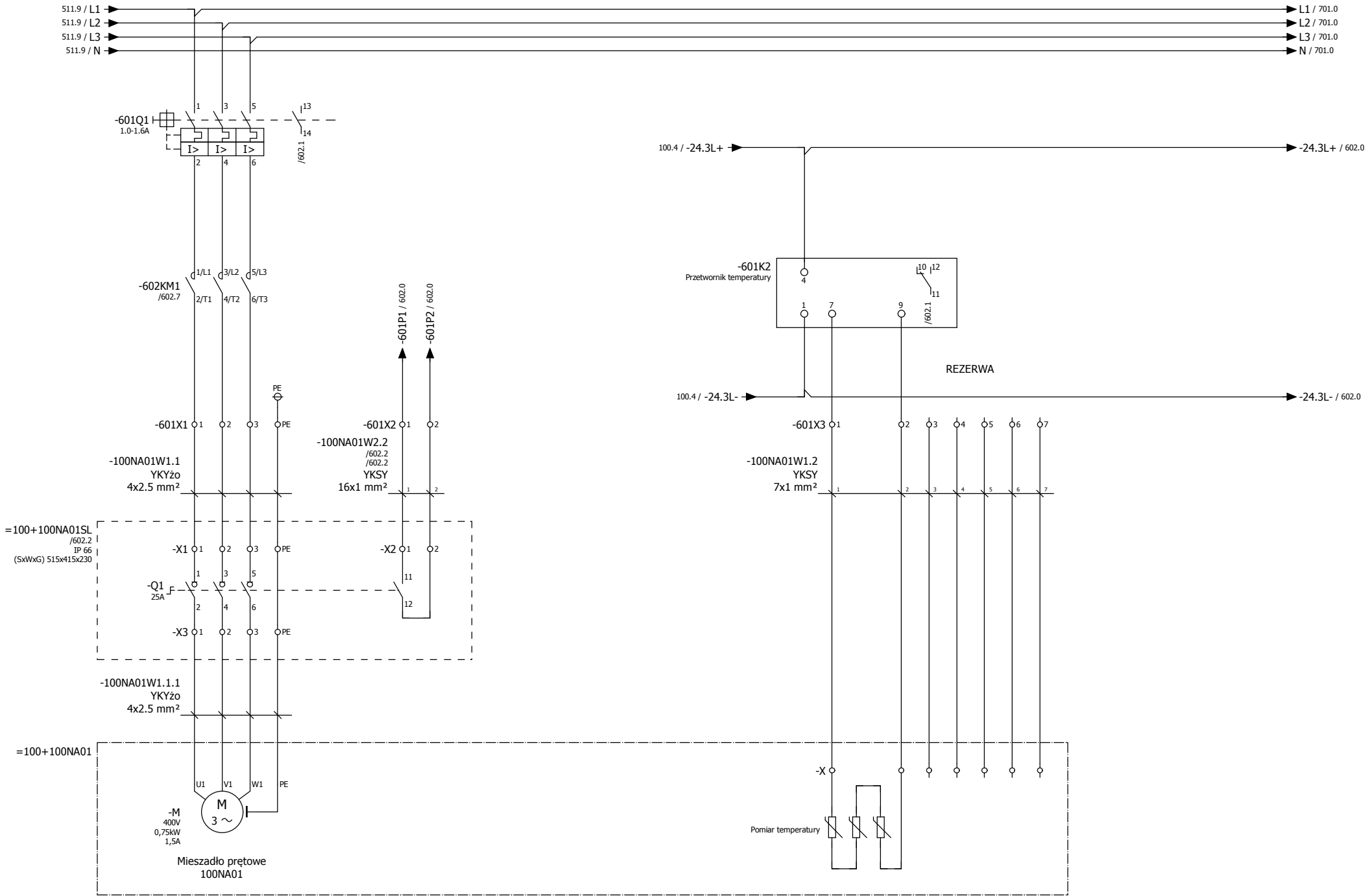


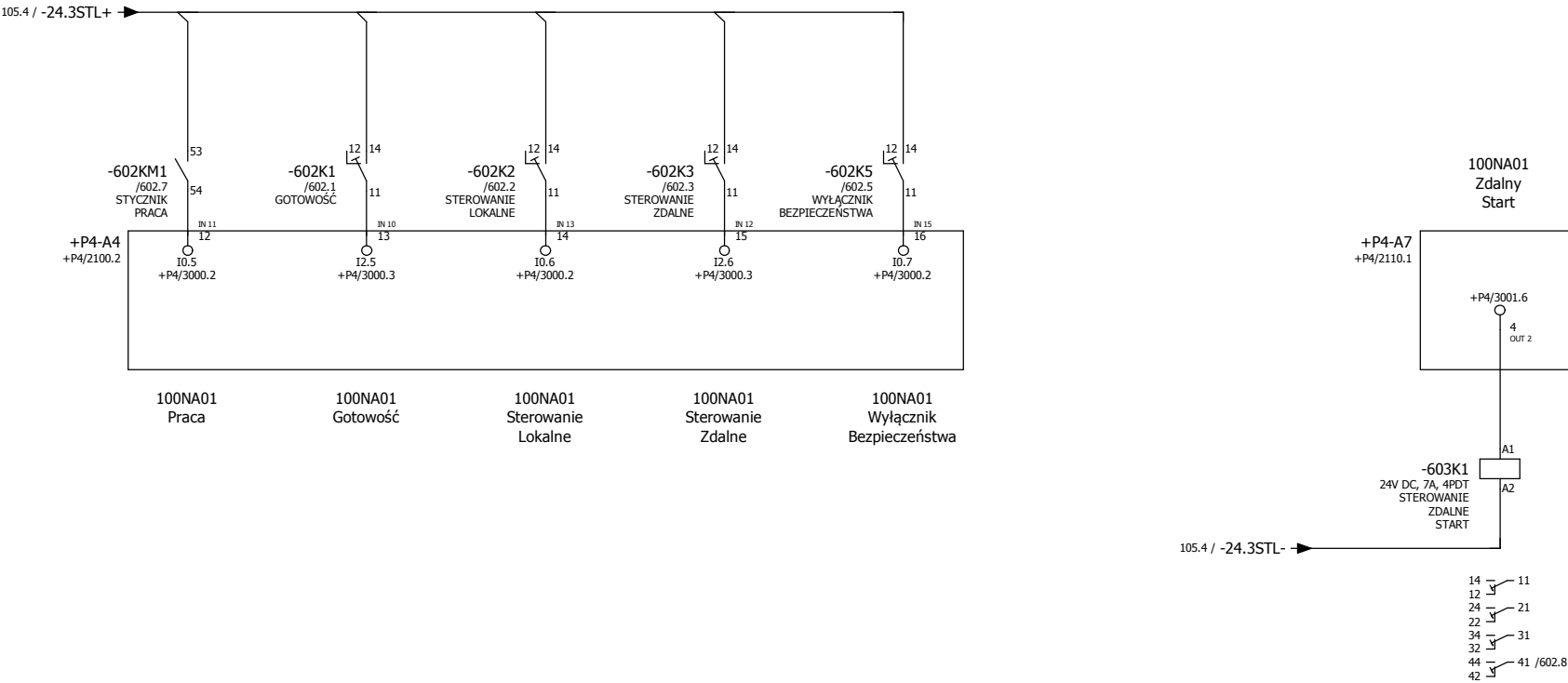


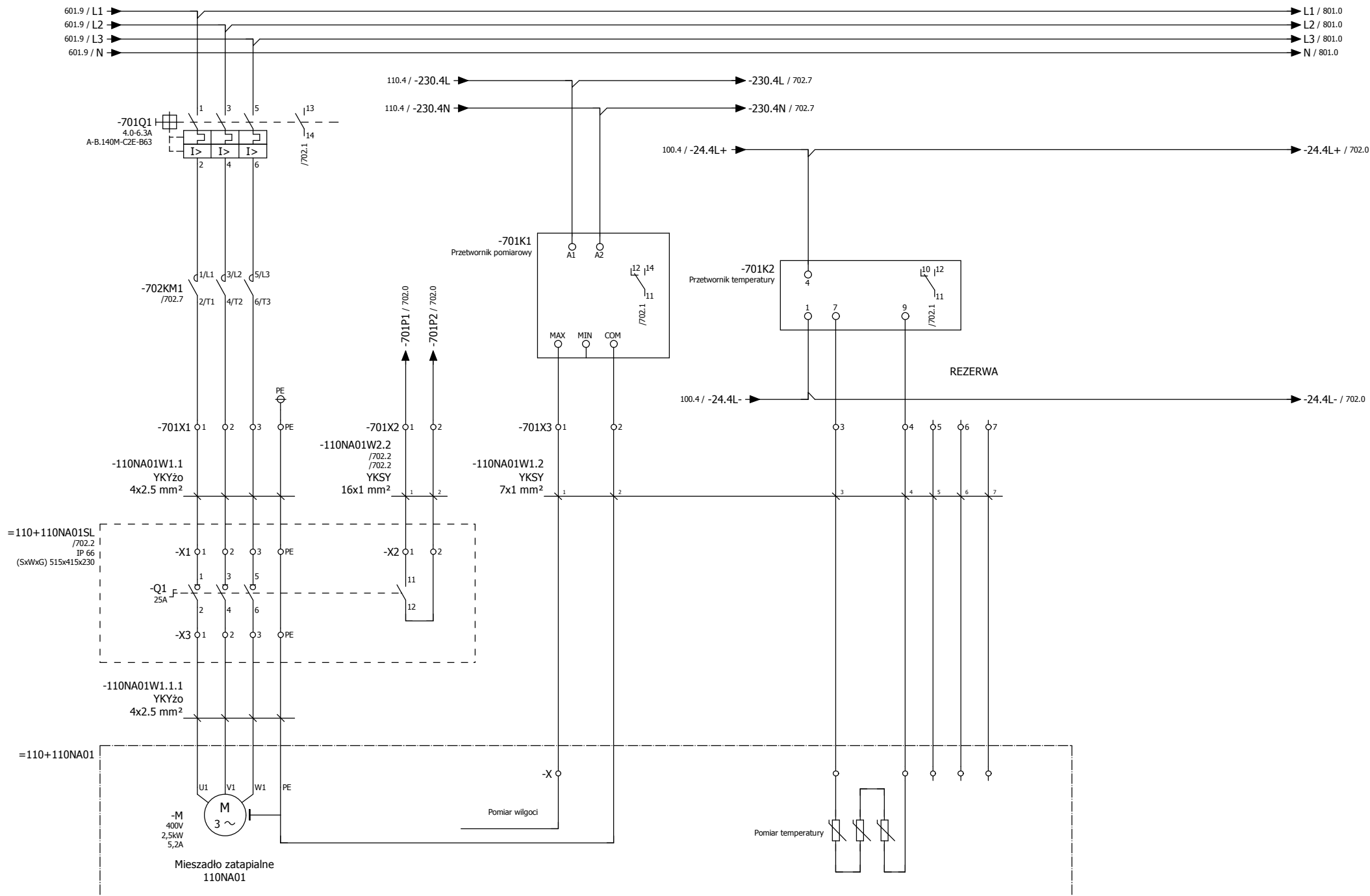


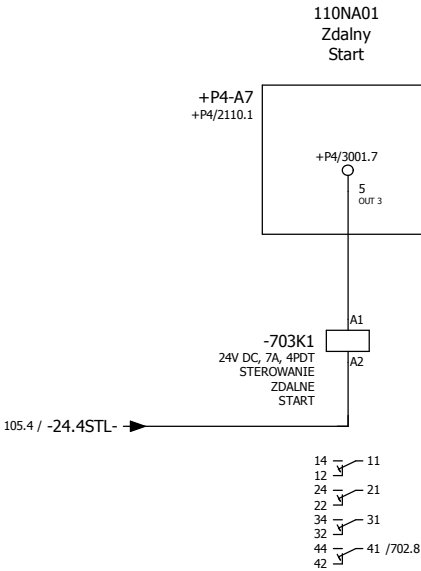
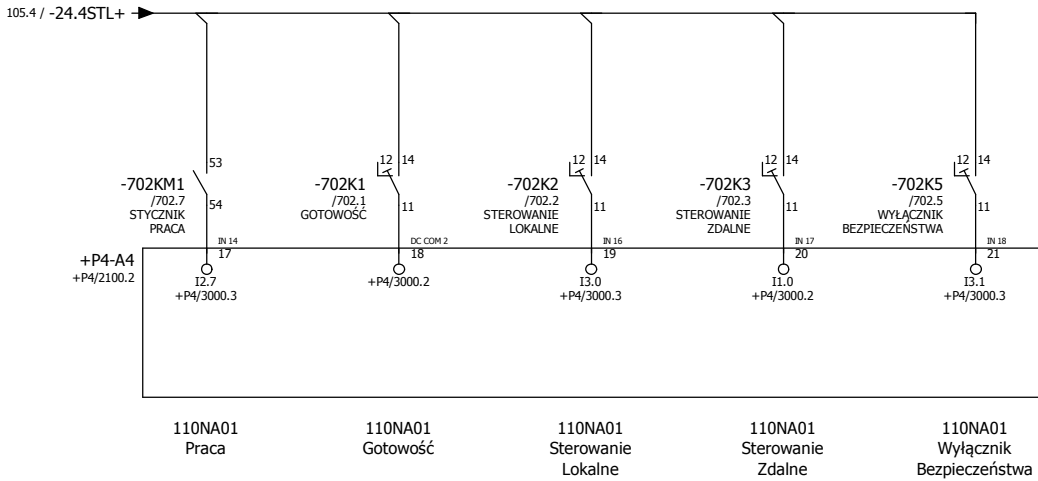


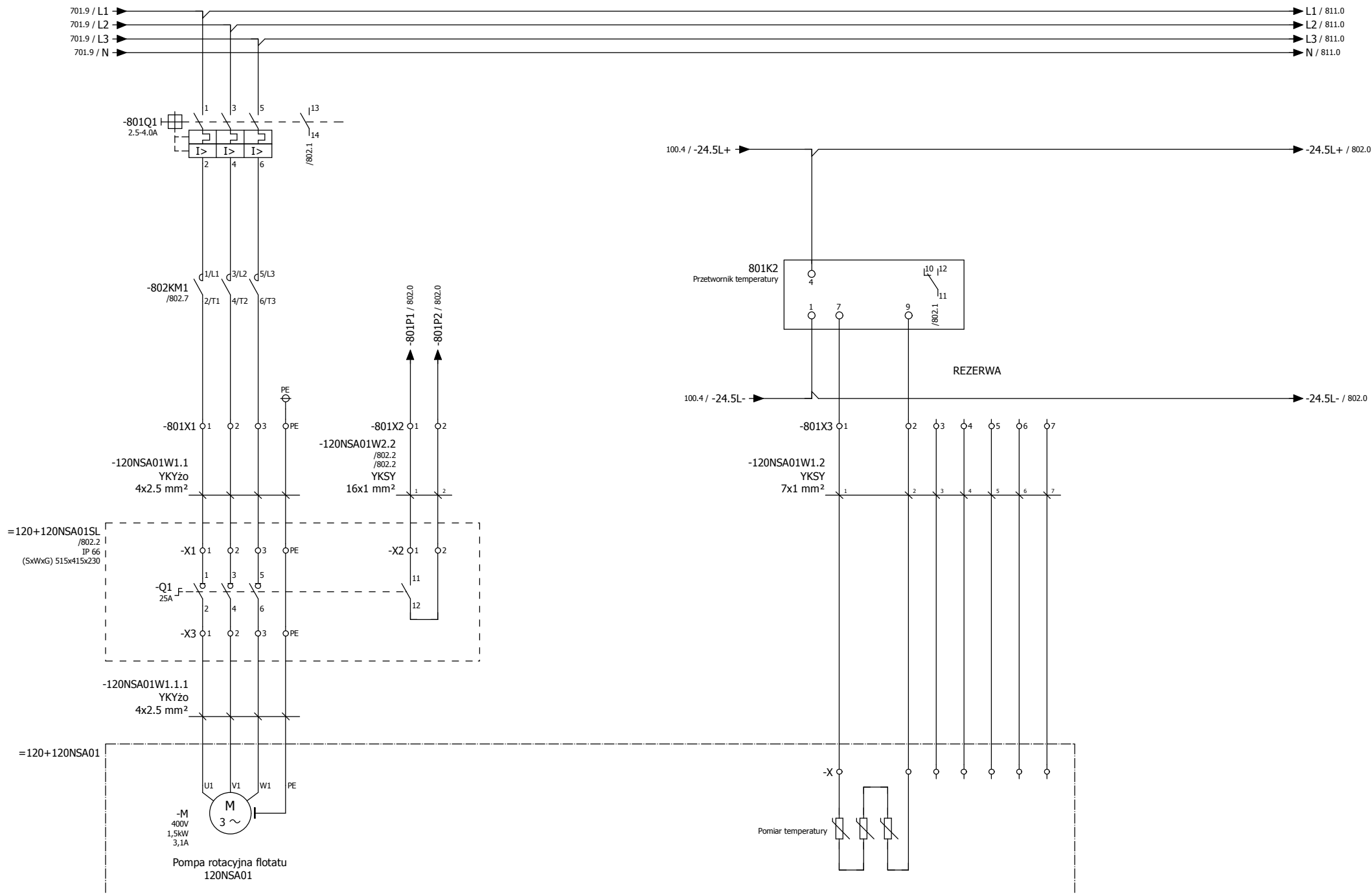
Szyny miedziane Cu 20x5 400V 50Hz

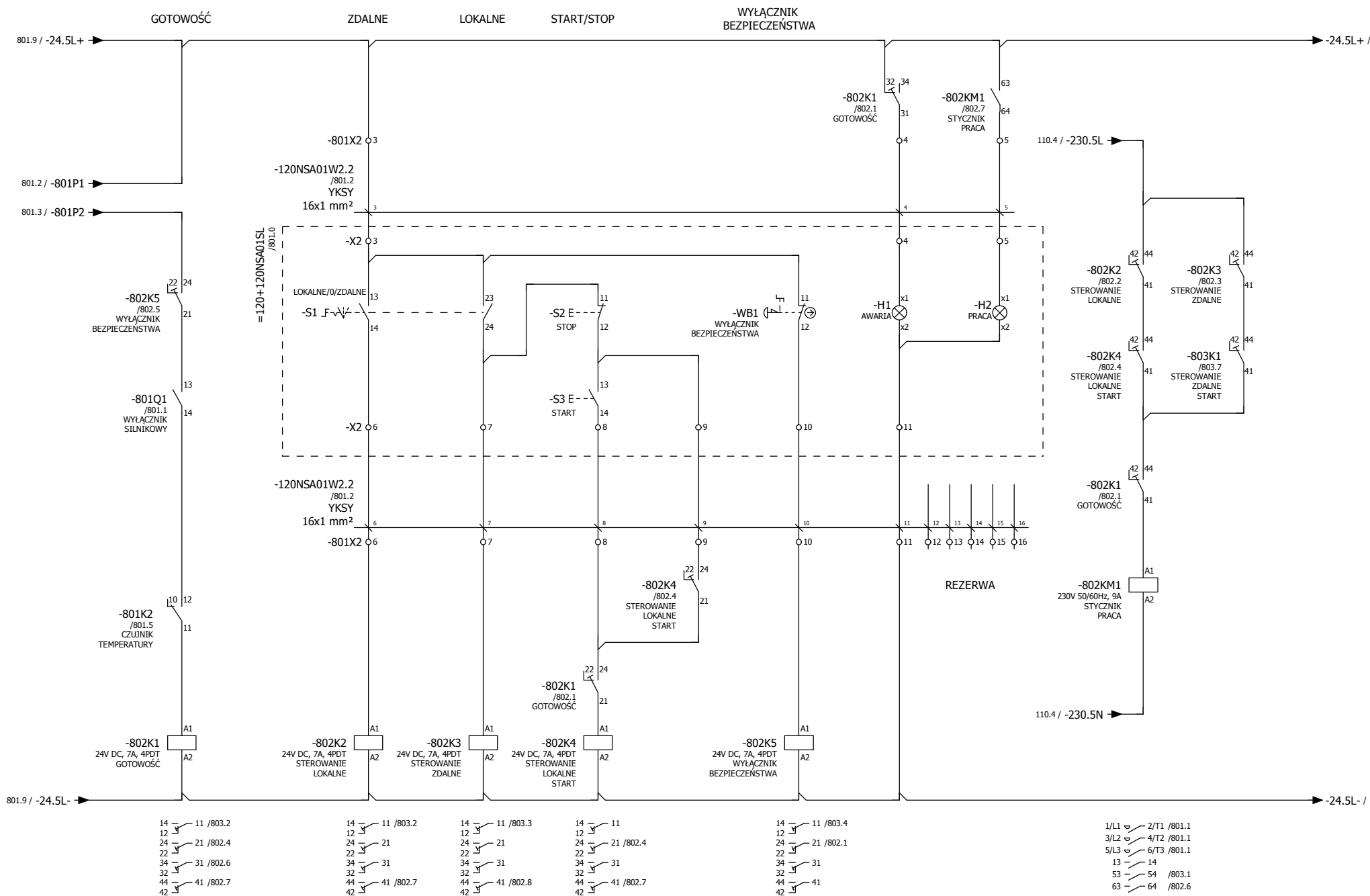


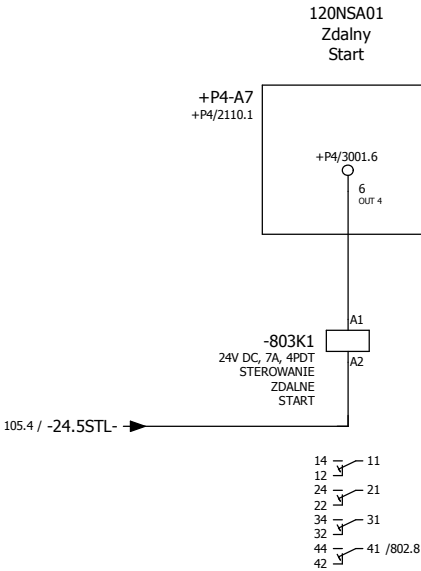
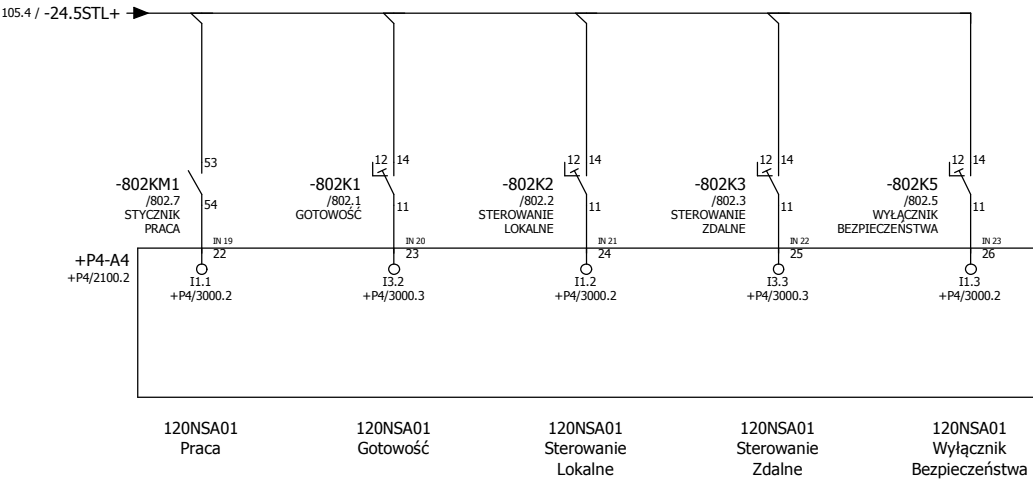




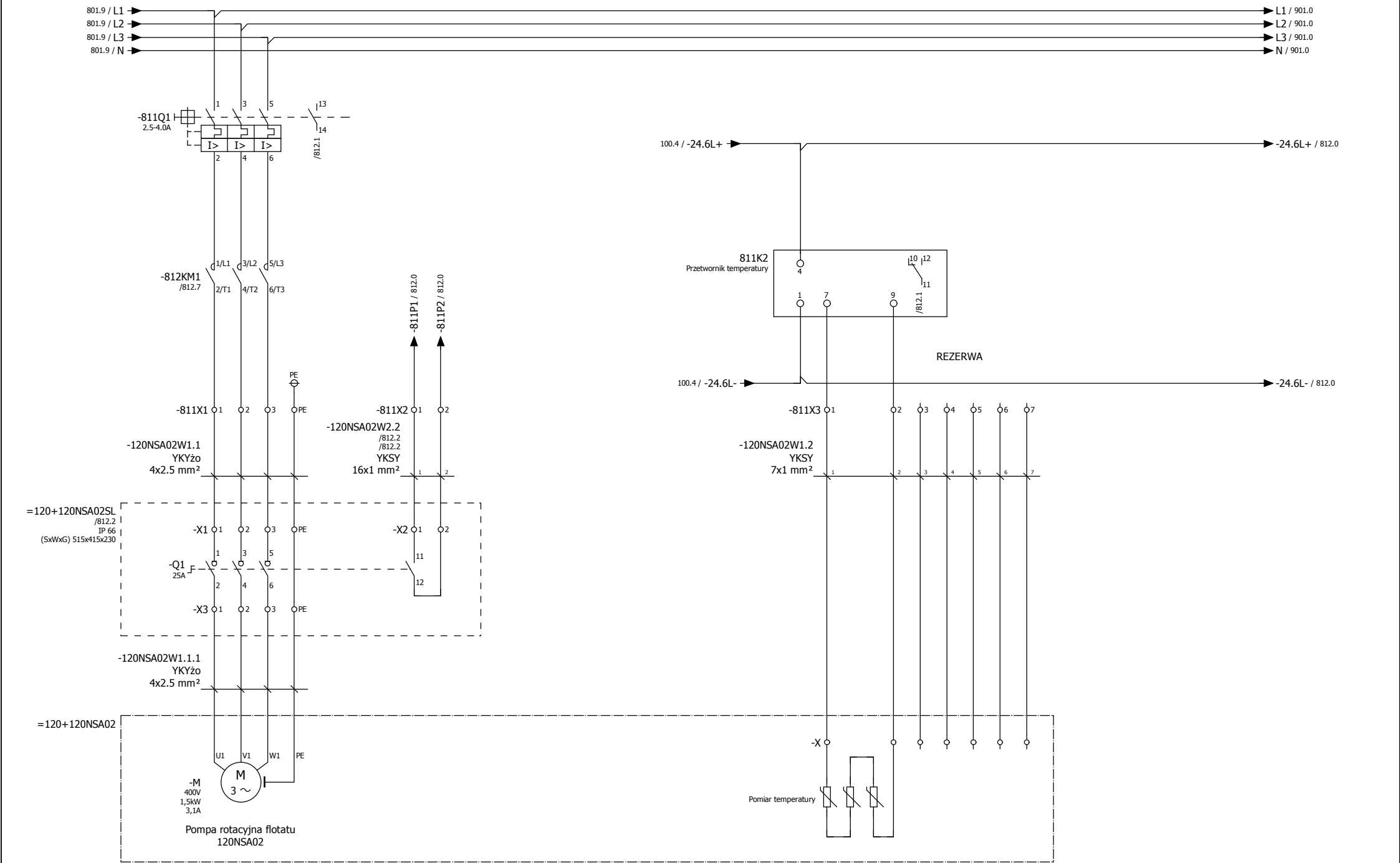


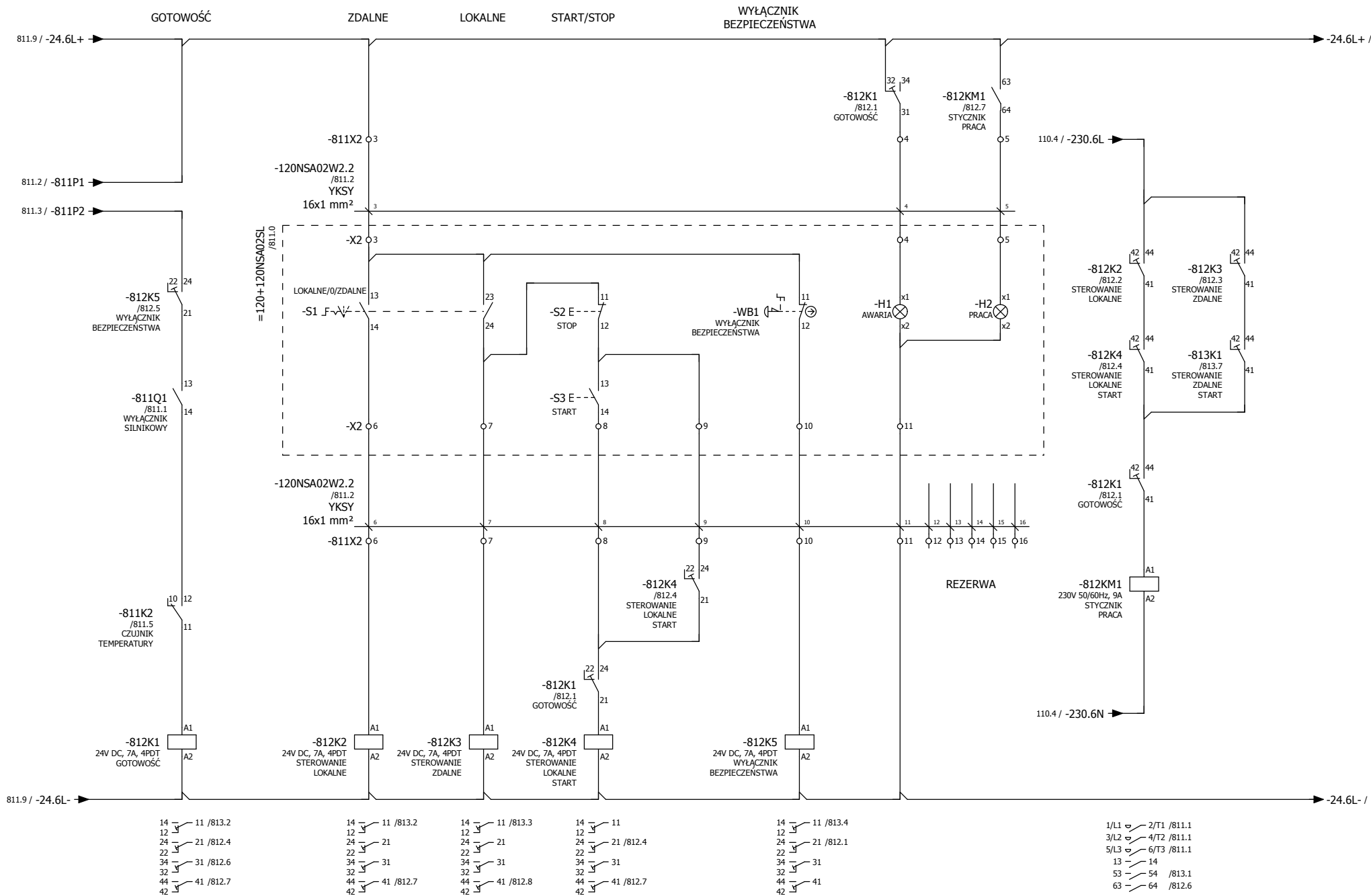


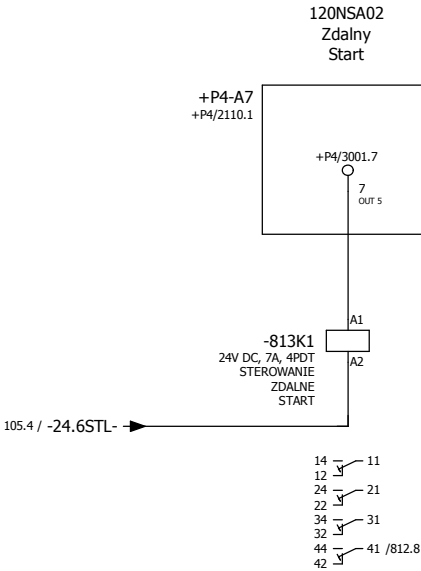
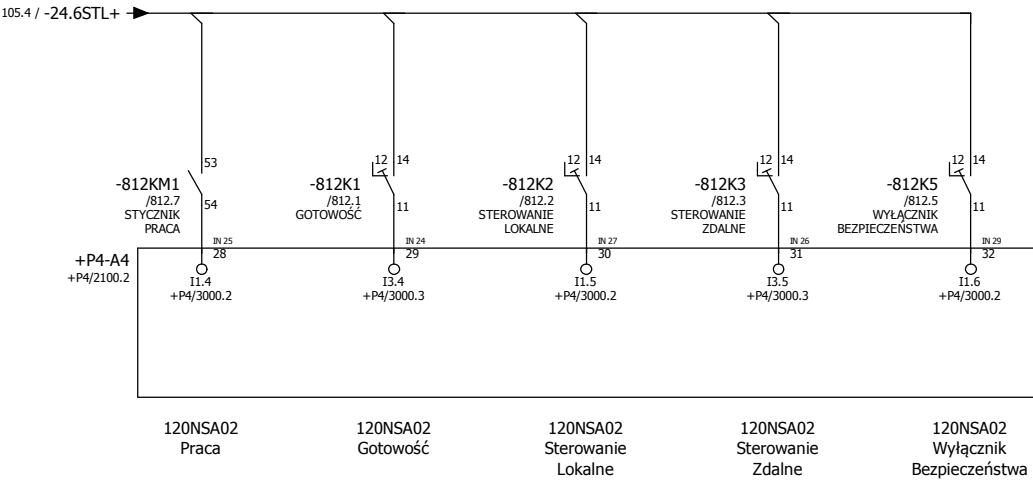




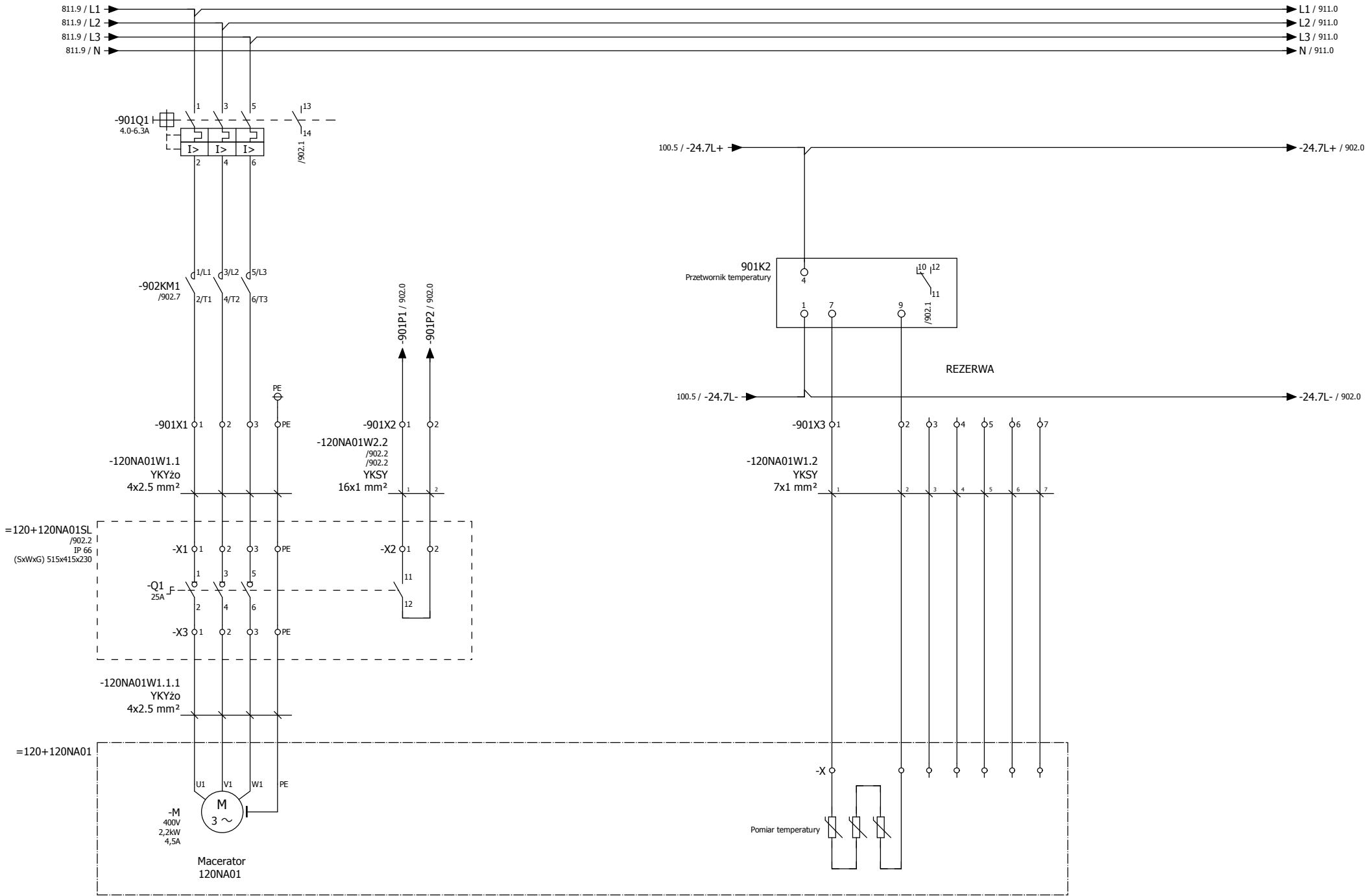
Szyny miedziane Cu 20x5 400V 50Hz

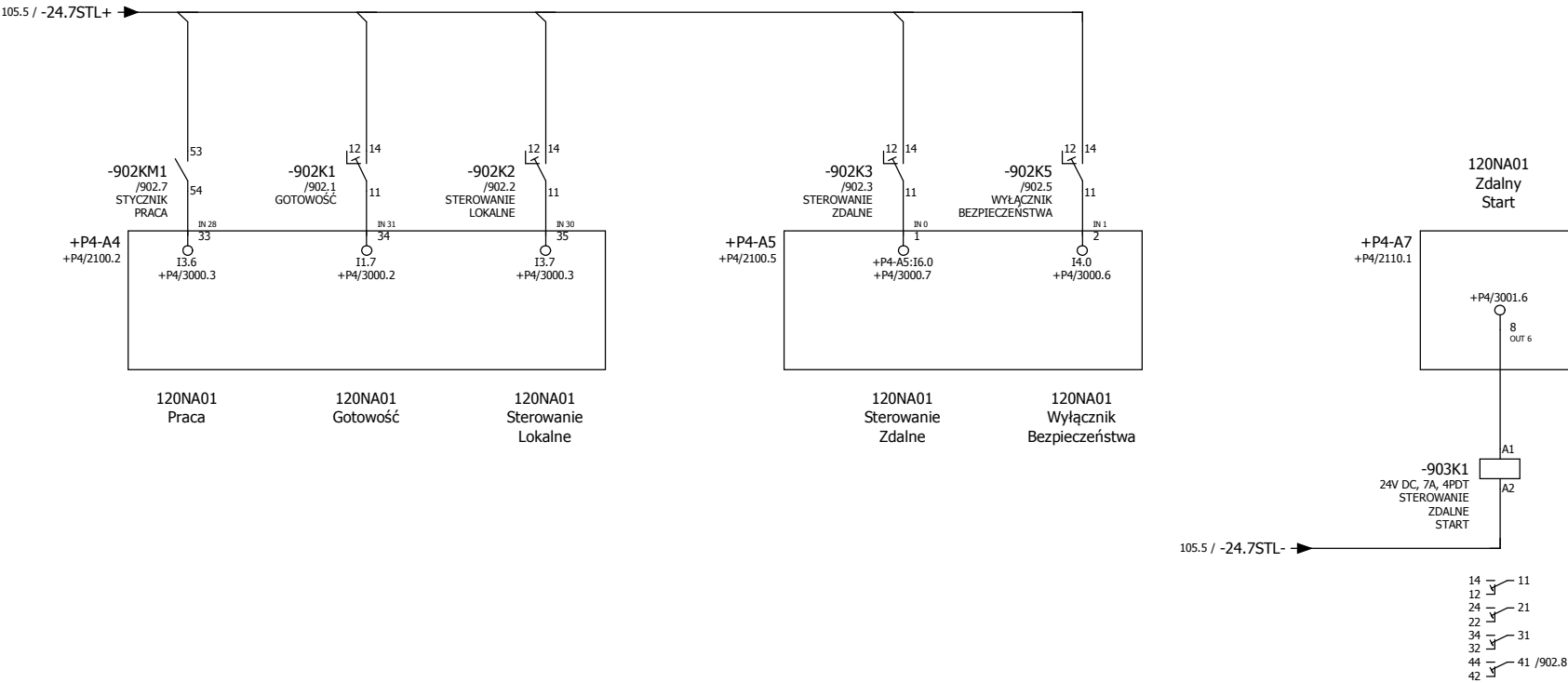


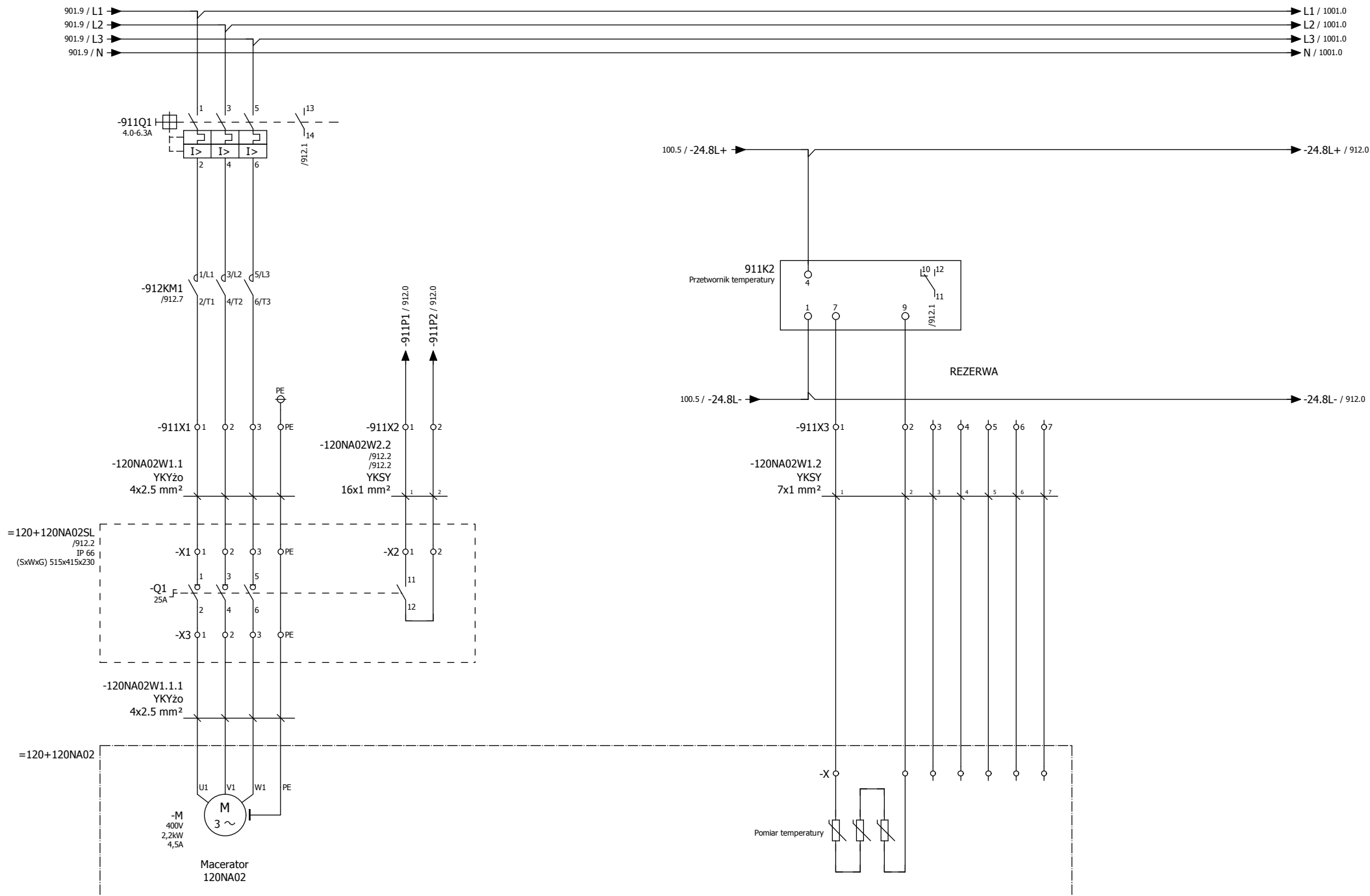


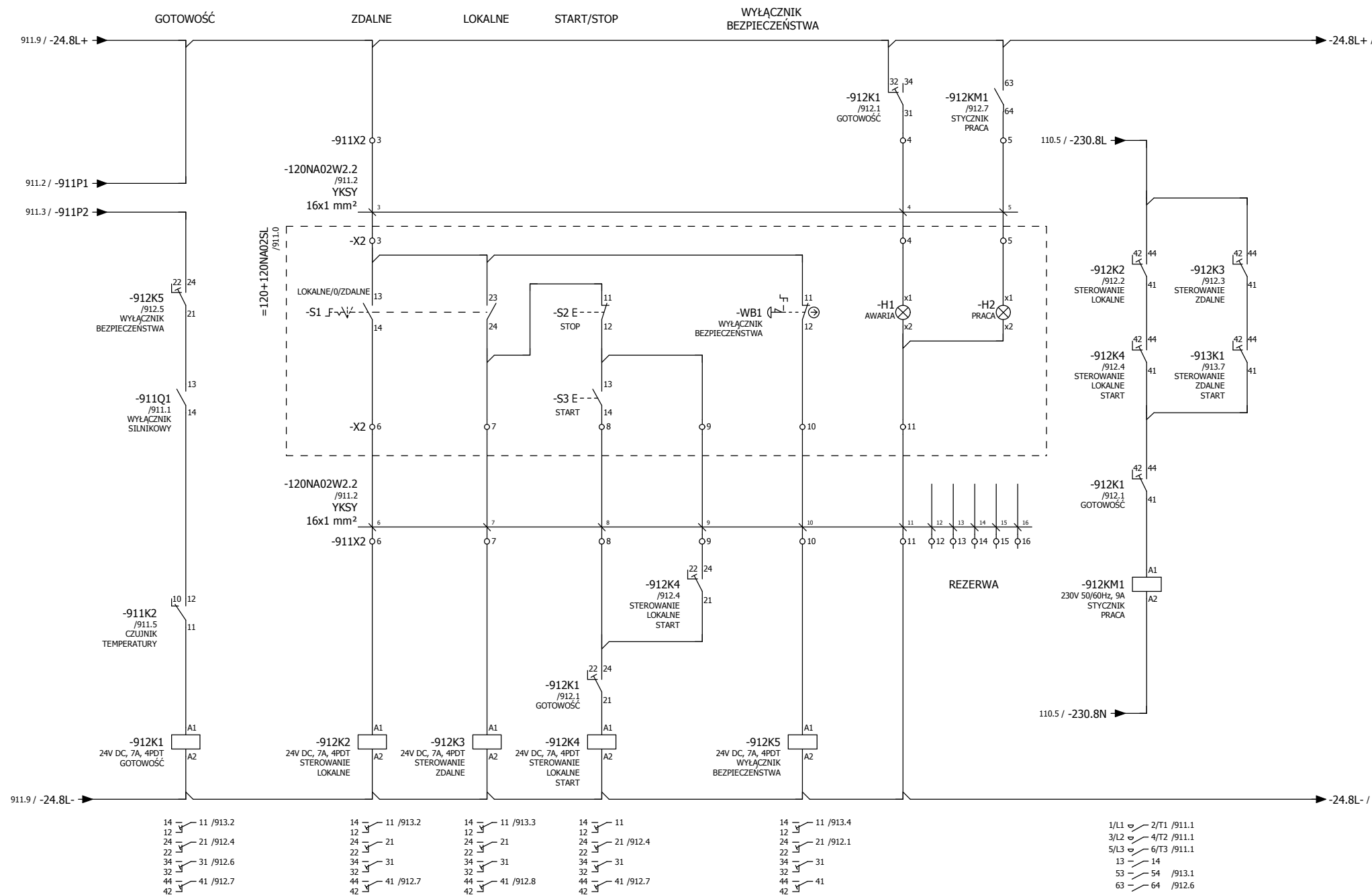


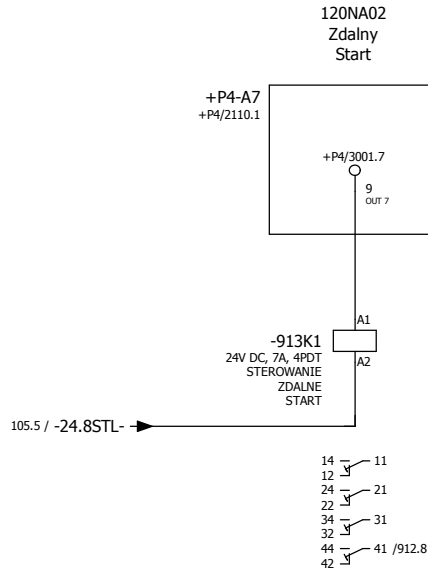
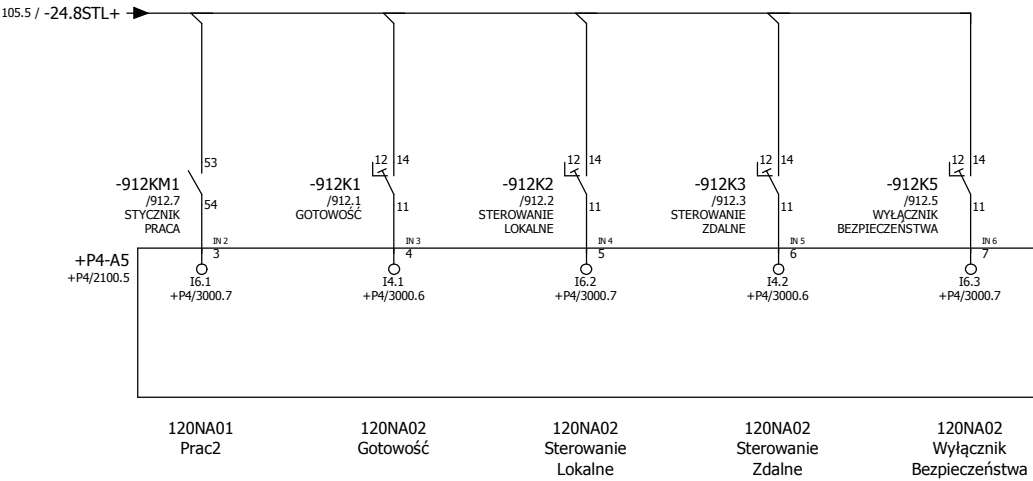
Szyny miedziane Cu 20x5 400V 50Hz

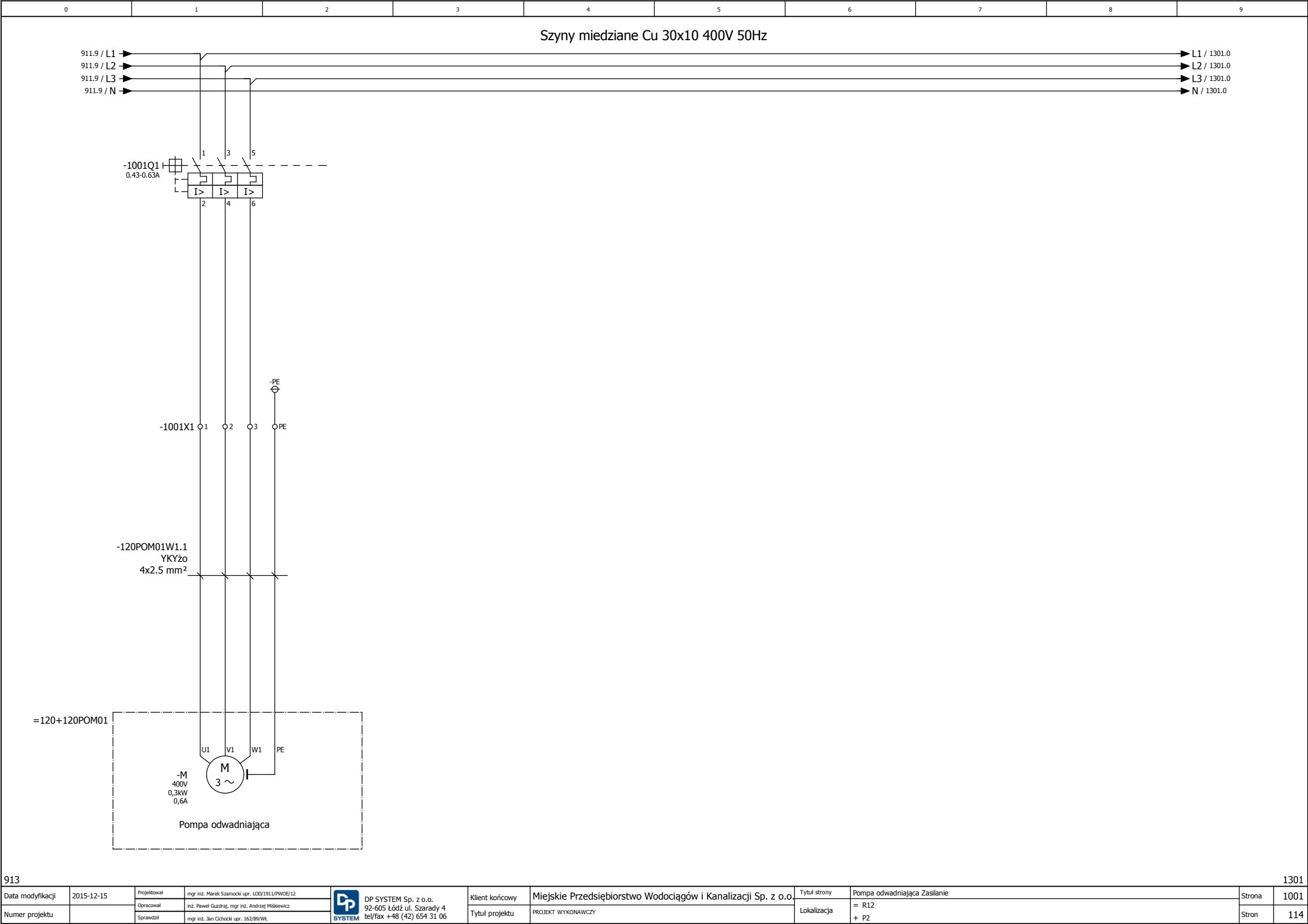


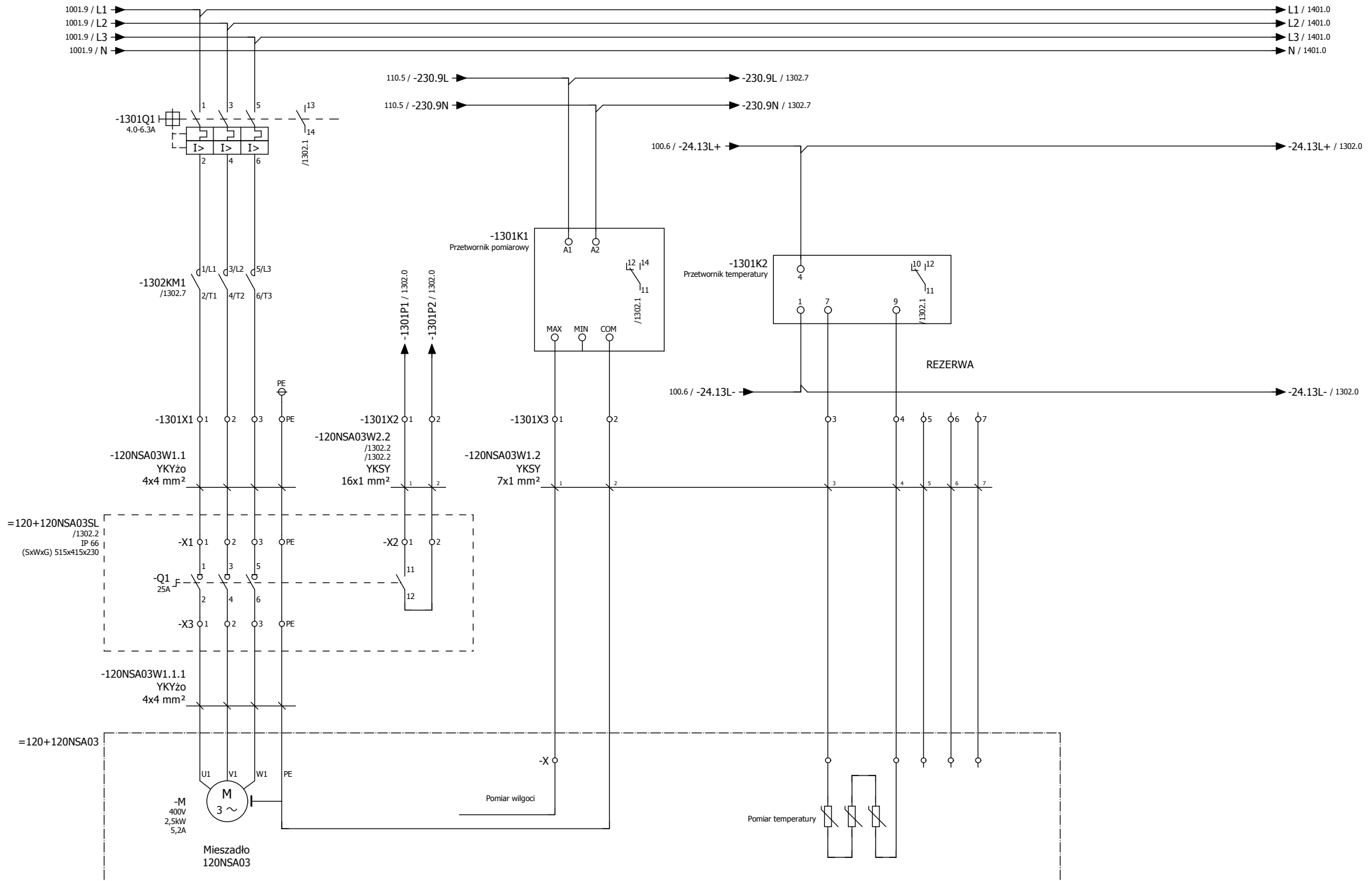


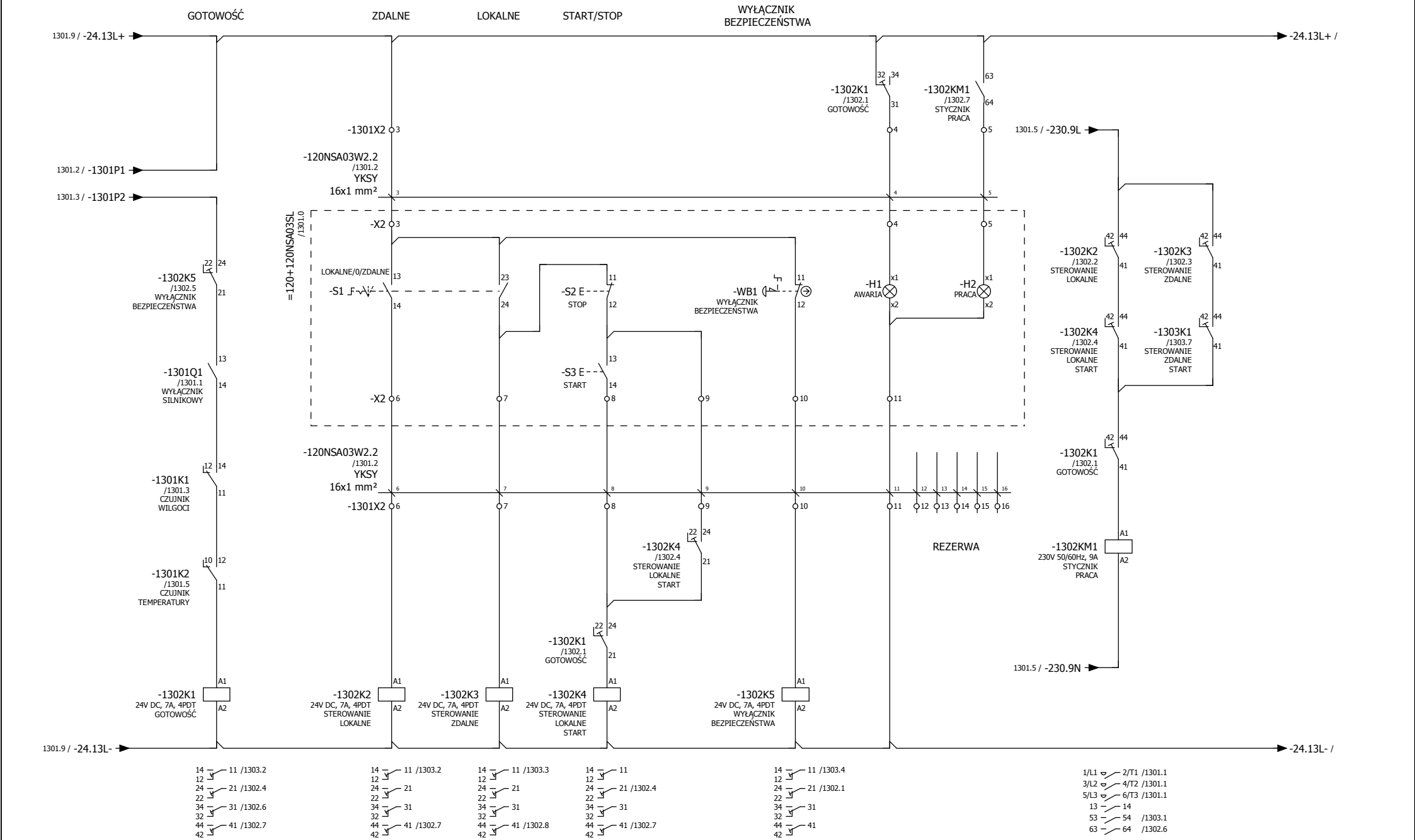


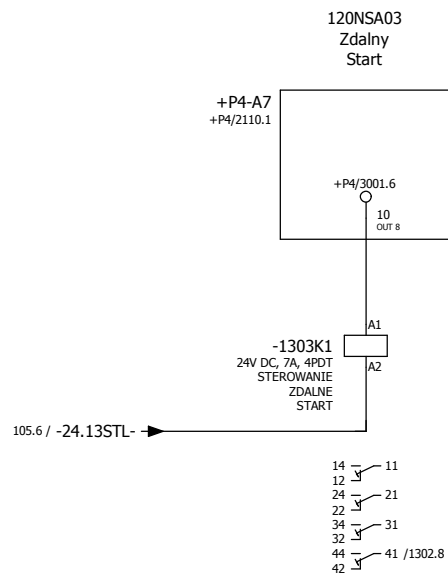




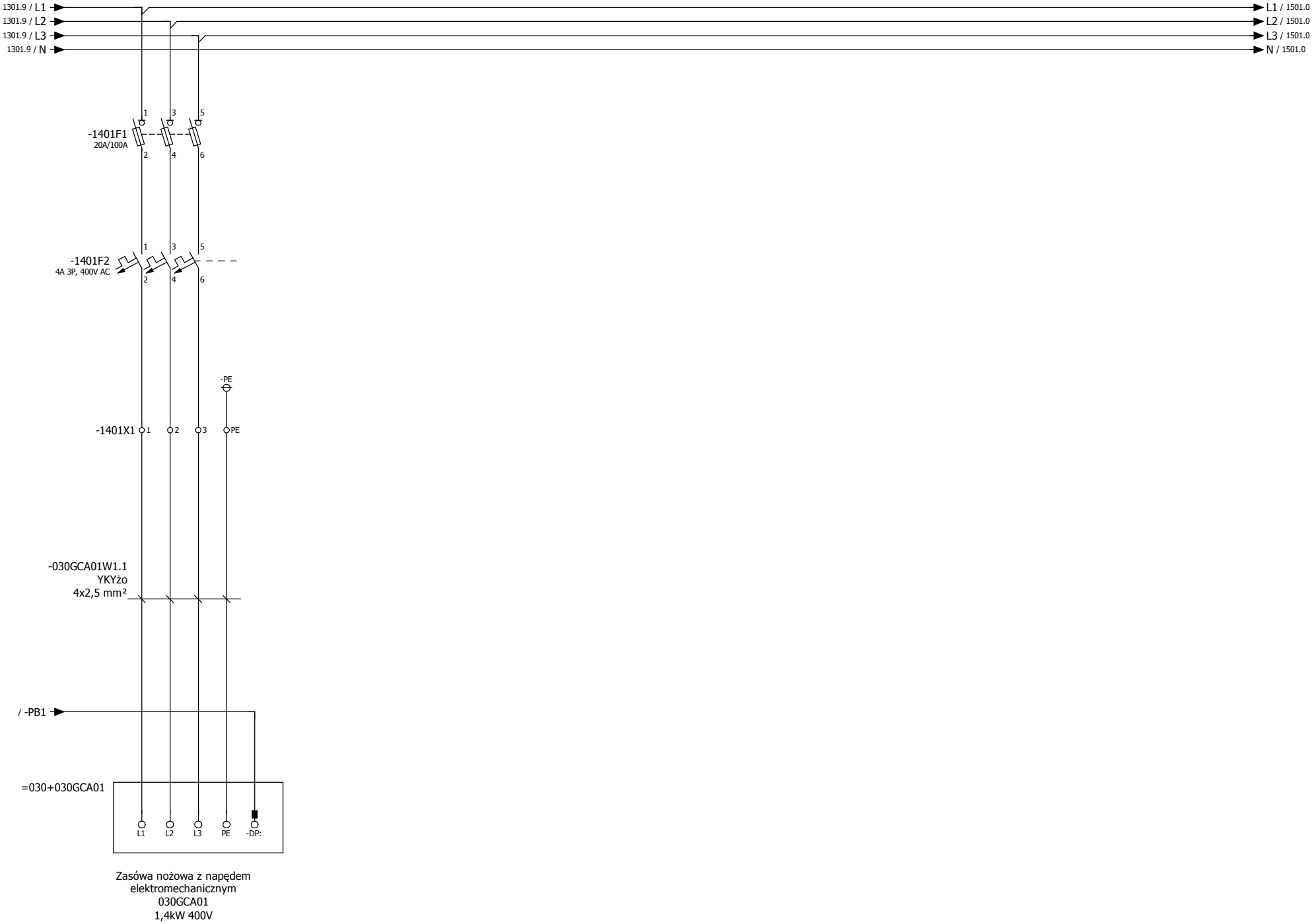


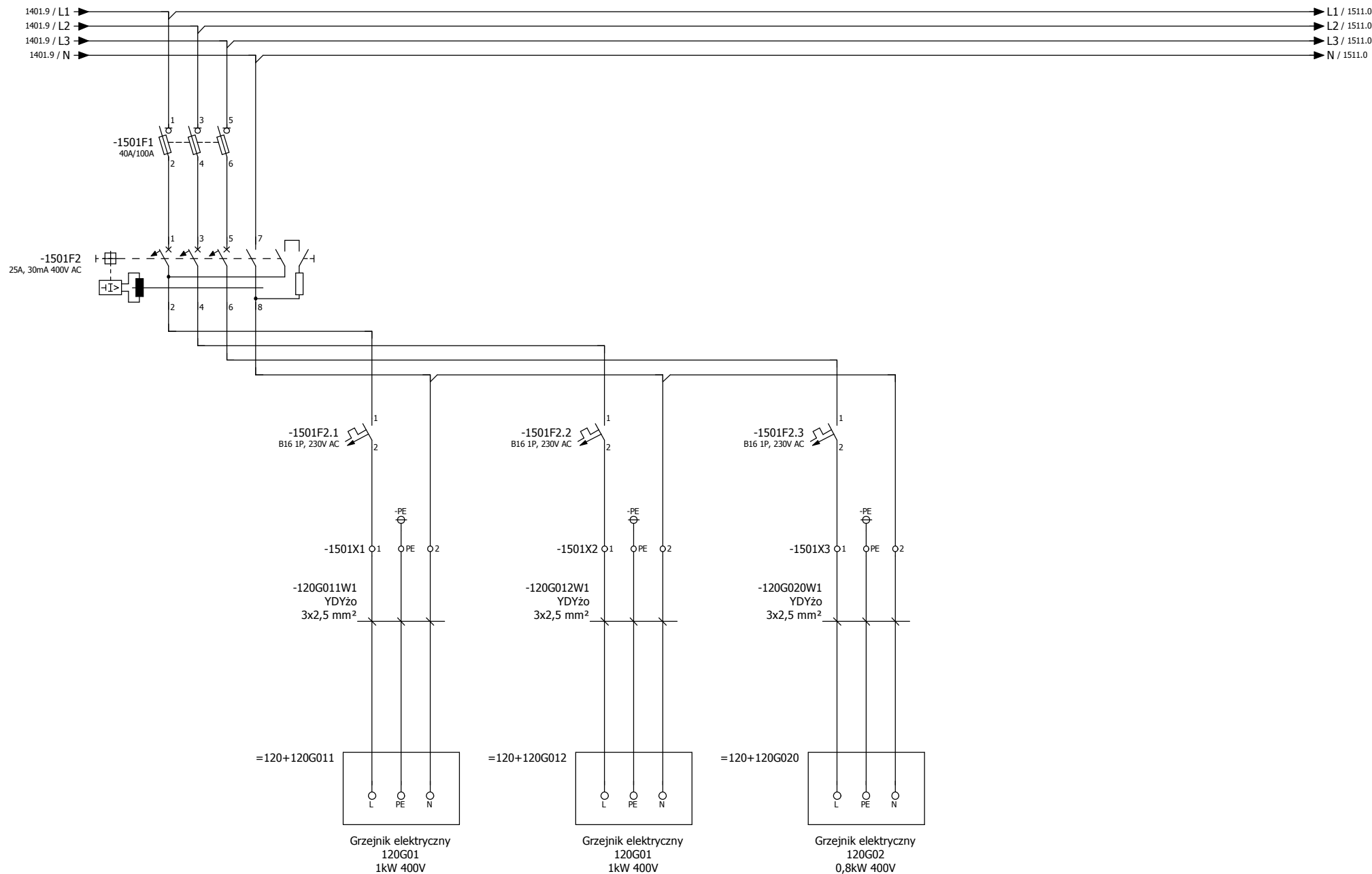


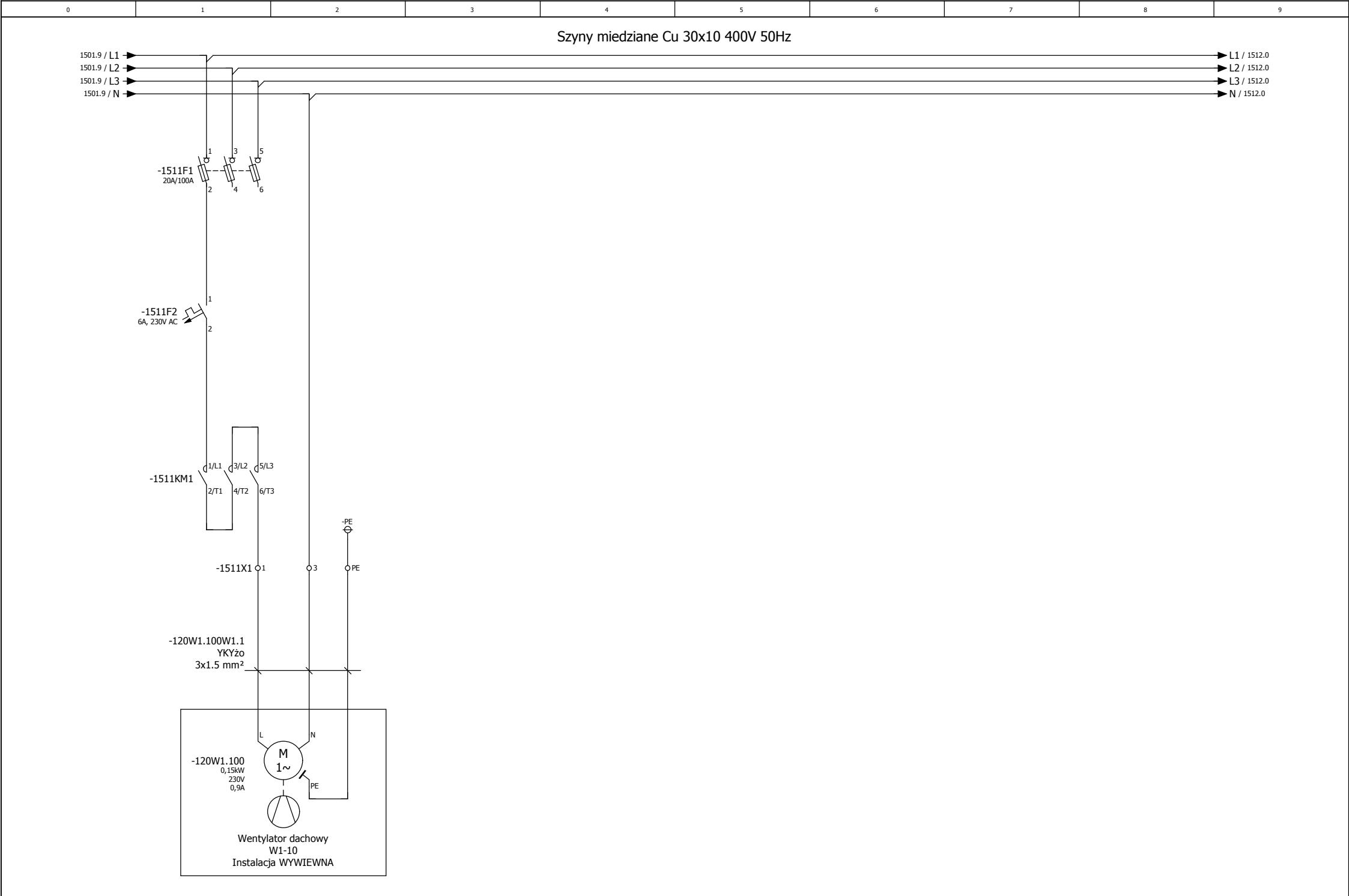


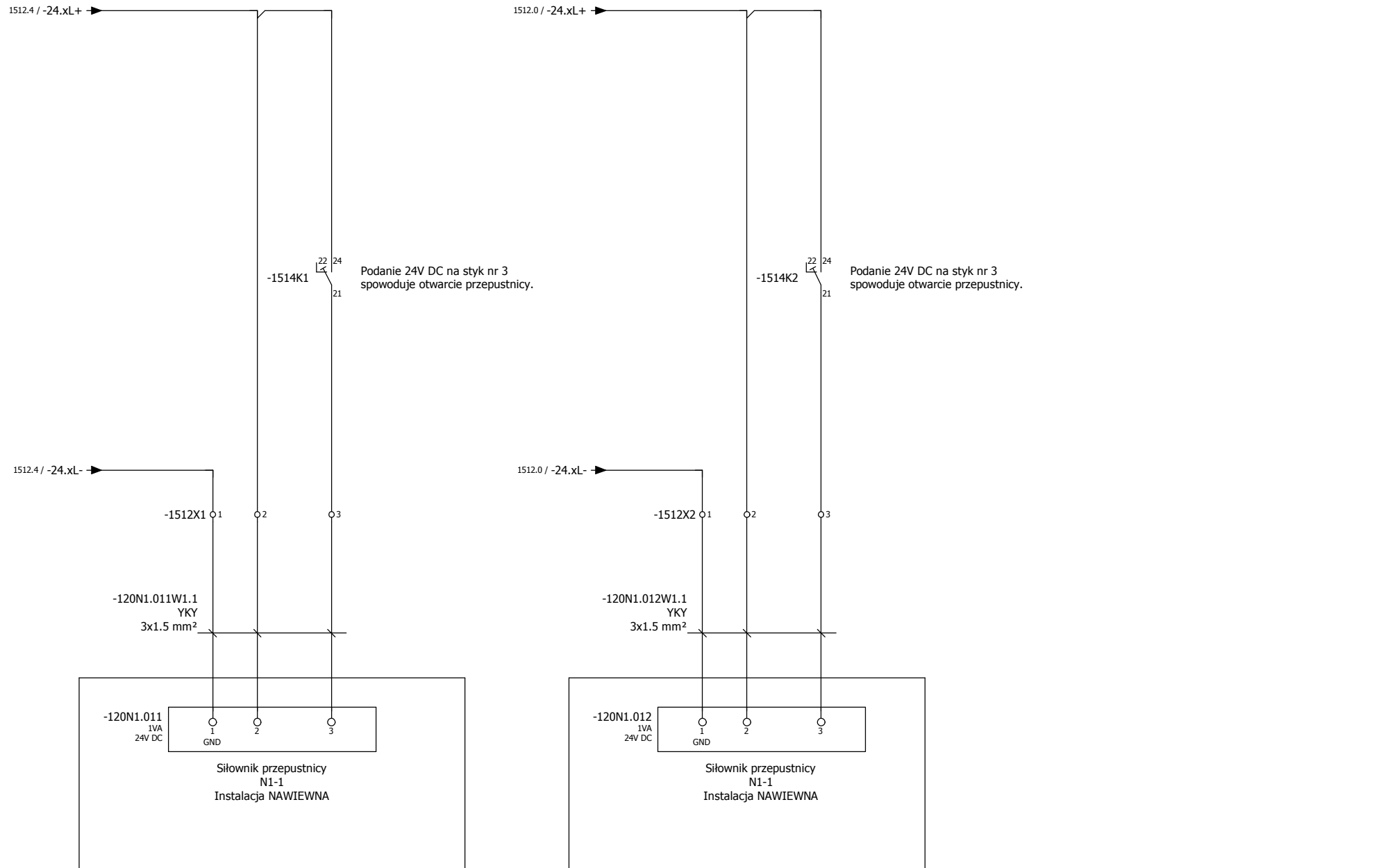


Szyny miedziane Cu 20x5 400V 50Hz

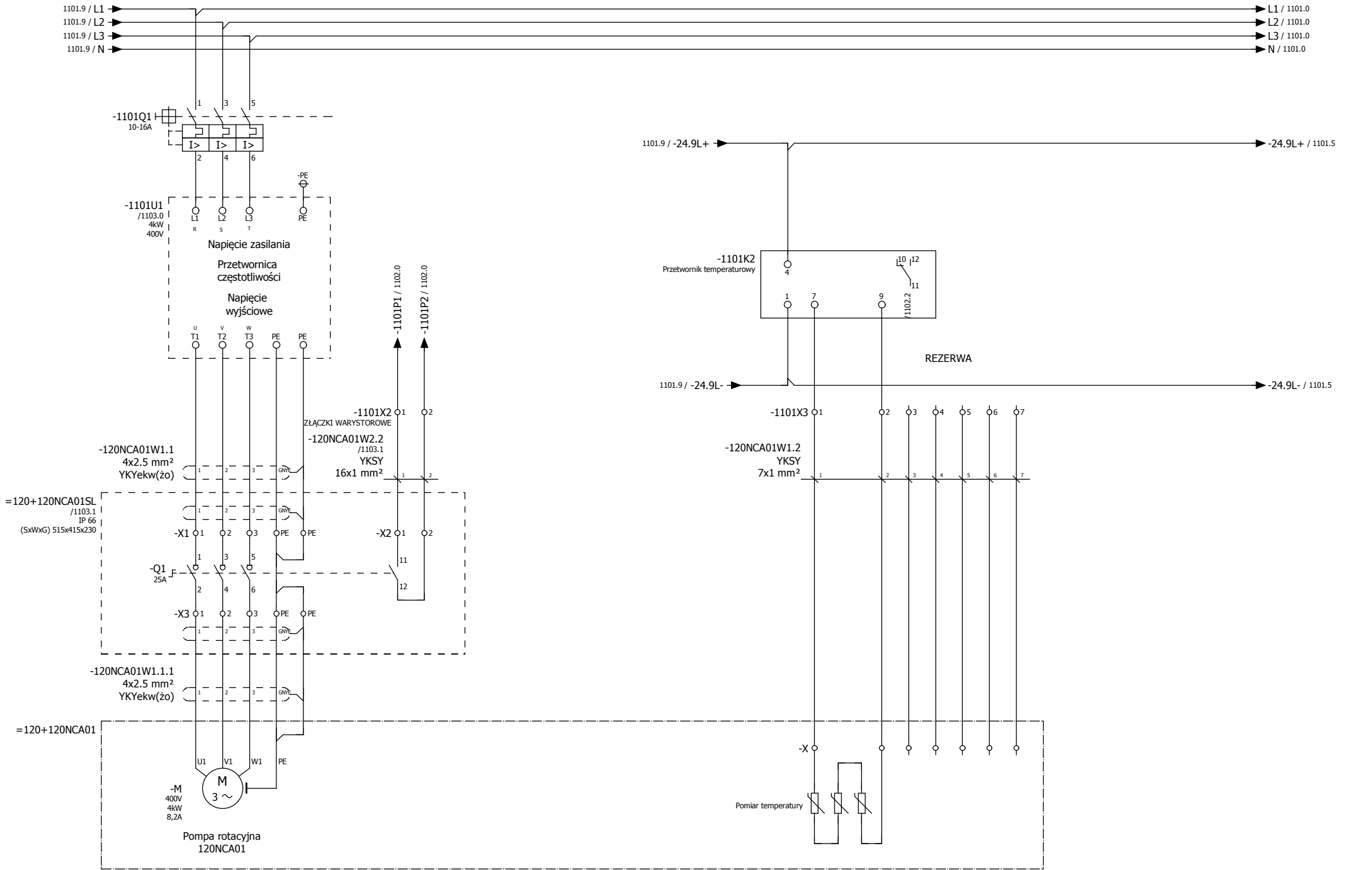






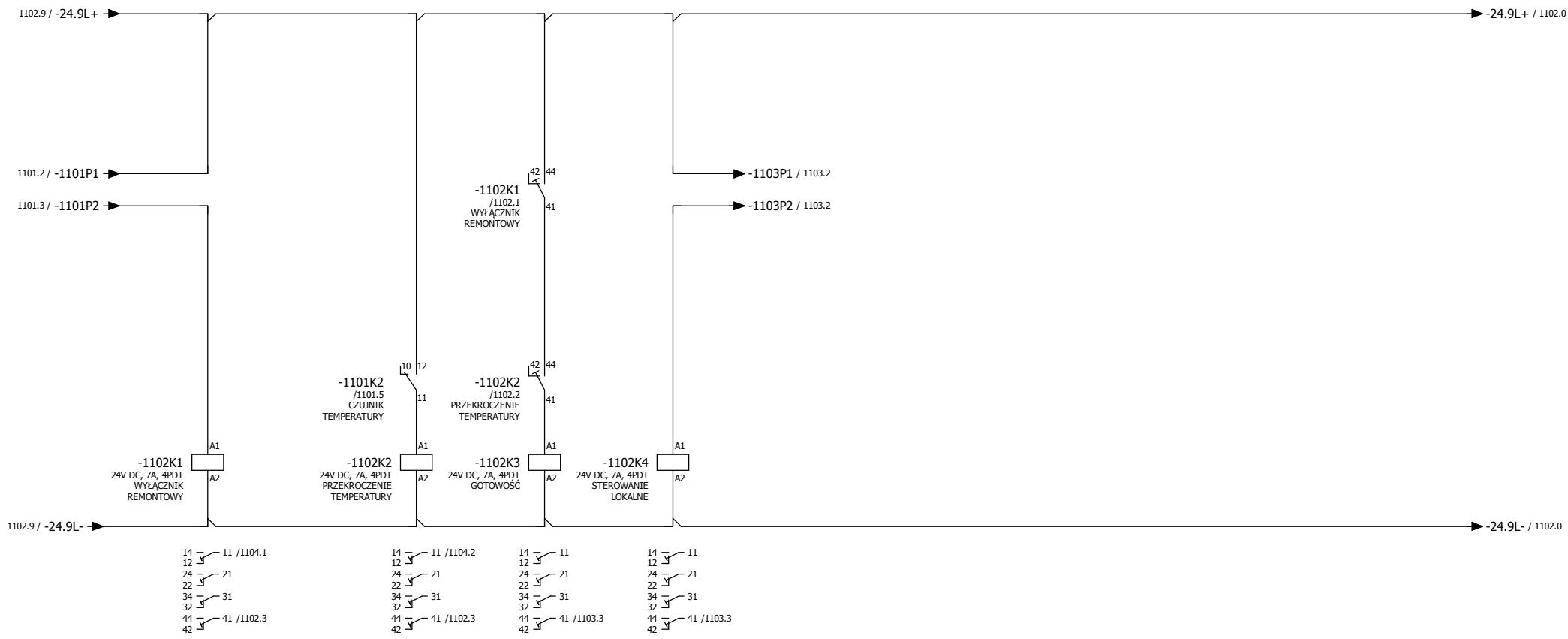


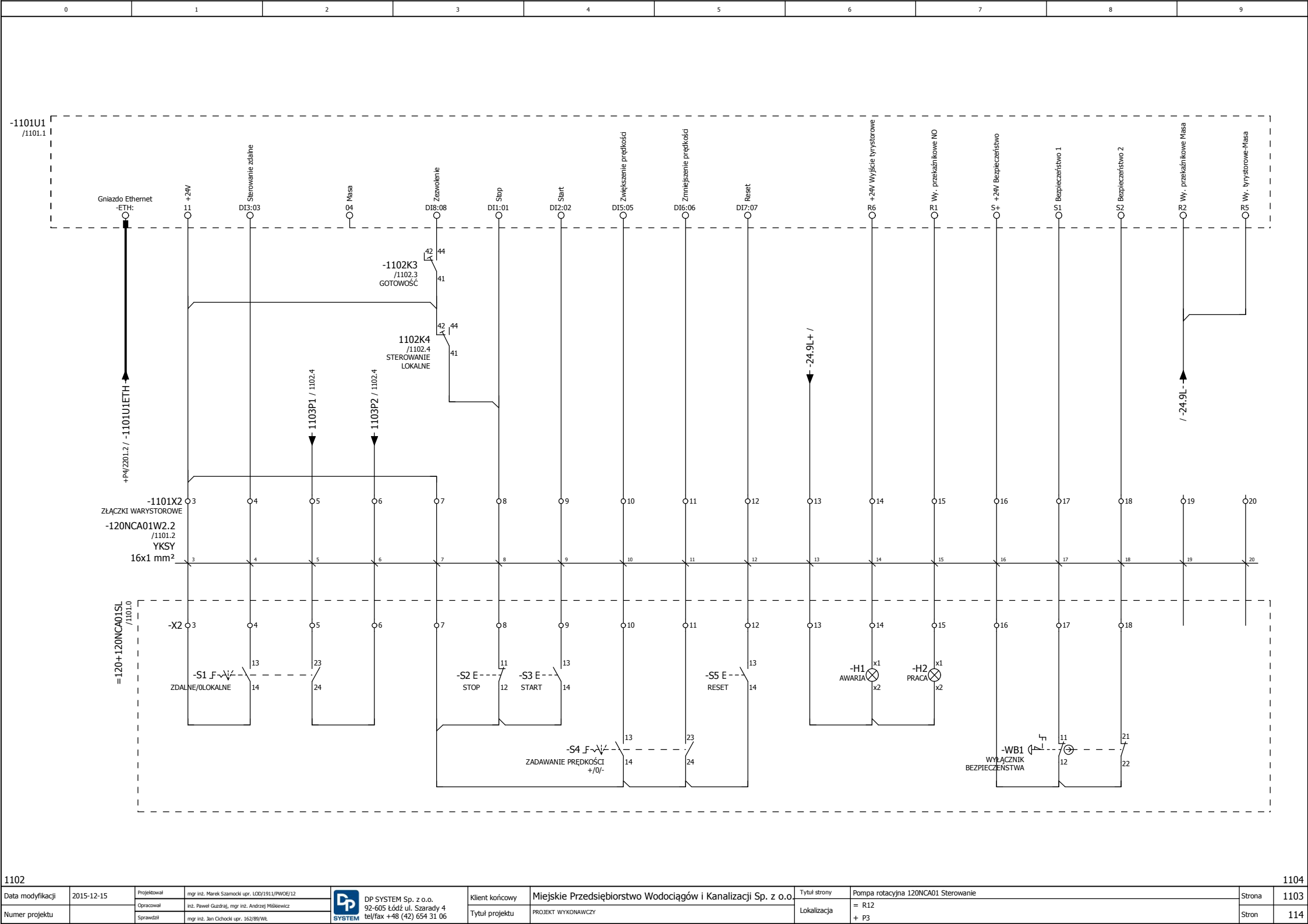
Szyny miedziane Cu 20x5 400V 50Hz

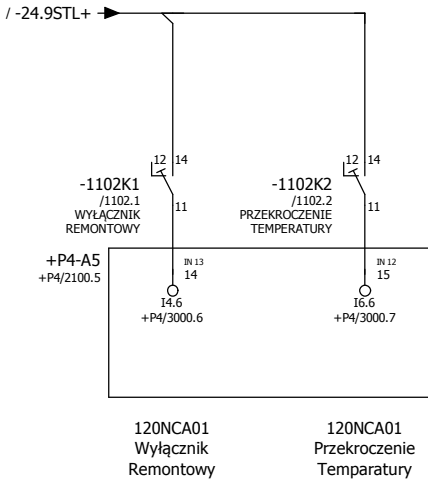


+P2/9000

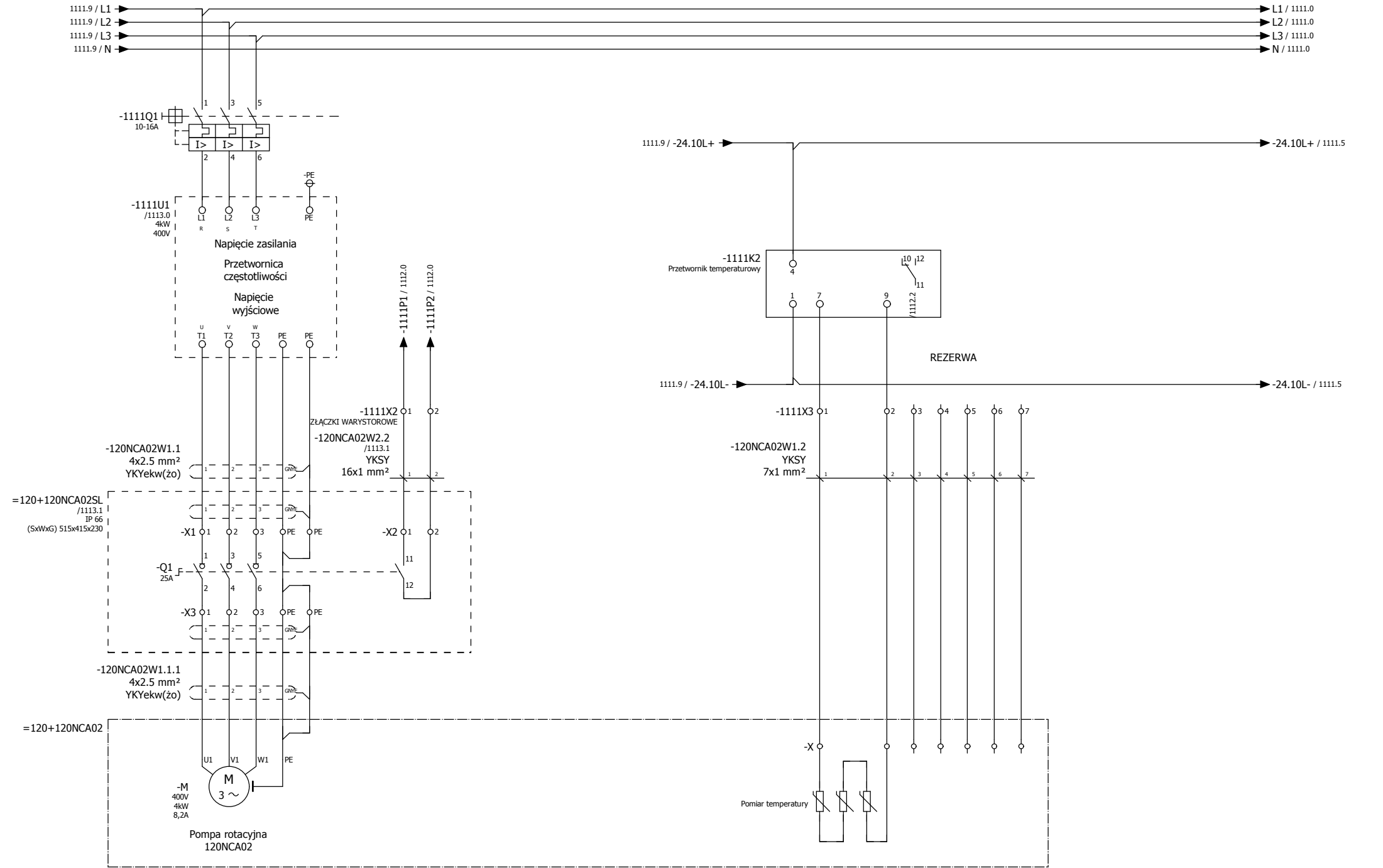
Data modyfikacji	2015-12-15	Projektował	mgr inż. Marek Szamocki upr. LOD/1911/PWOE/12	Klient końcowy	Miejskie Przedsiębiorstwo Wodociągów i Kanalizacji Sp. z o.o.	Tytuł strony	Pompa rotacyjna 120NCA01 Zasilanie	Strona	1101
Numer projektu		Opracował	inż. Paweł Guźdź, mgr inż. Andrzej Miśkiewicz	Tytuł projektu	PROJEKT WYKONAWCZY	Lokalizacja	= R12 + P3	Stron	114
		Sprawił	mgr inż. Jan Cichocki upr. 162/89/WL						

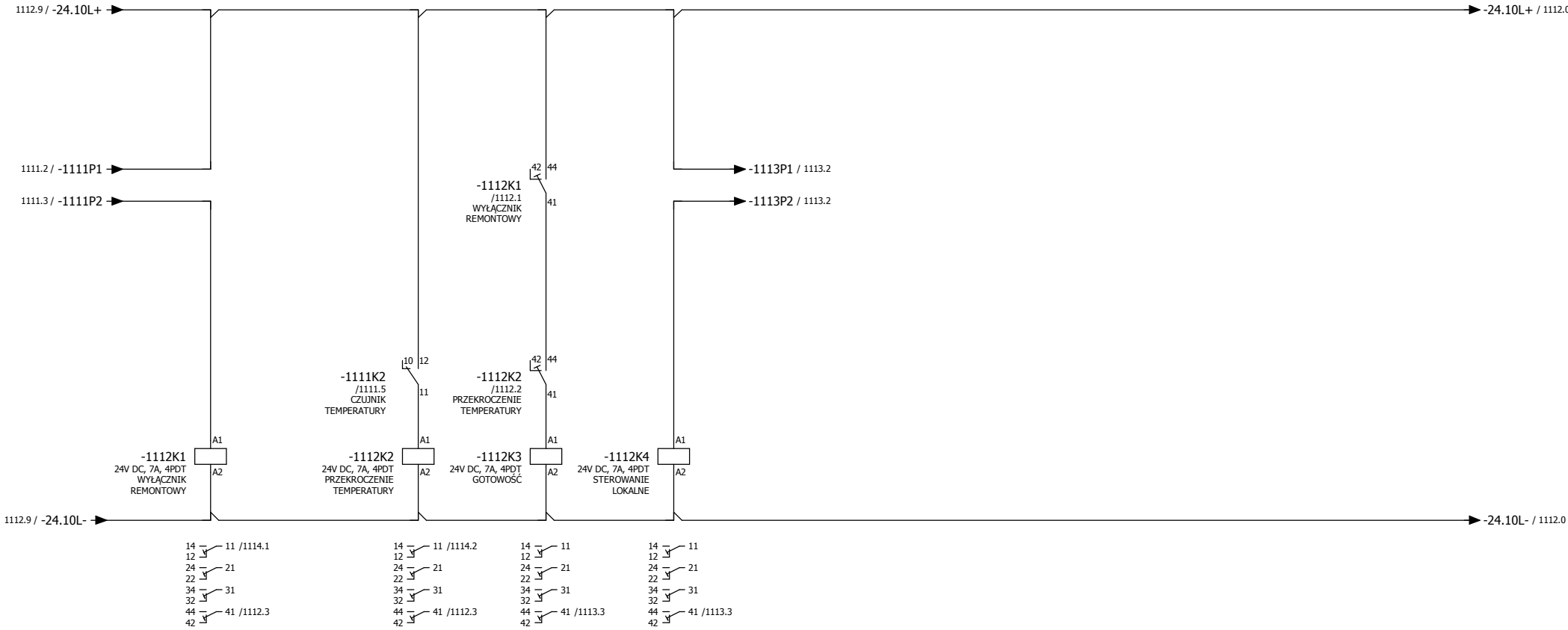


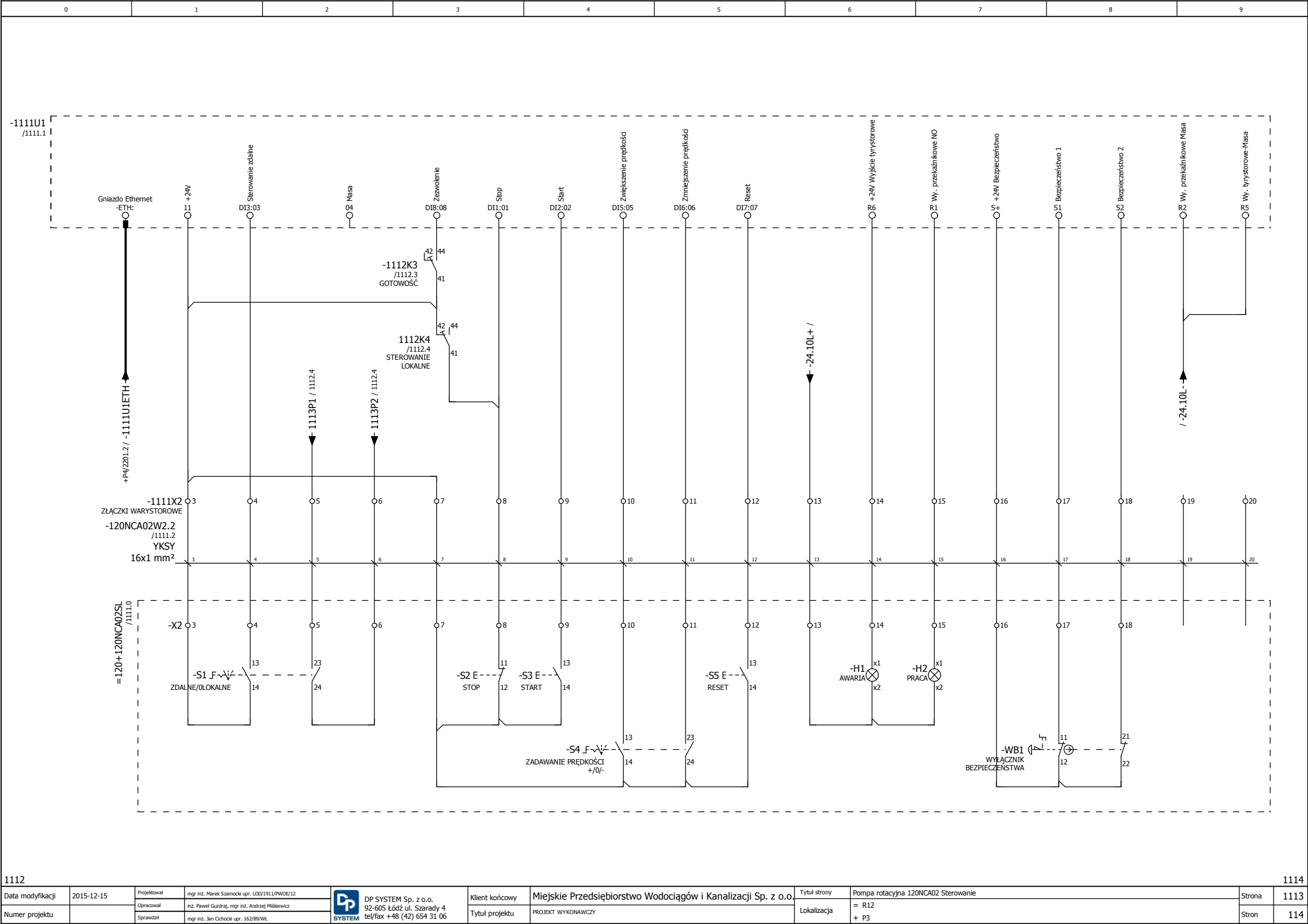




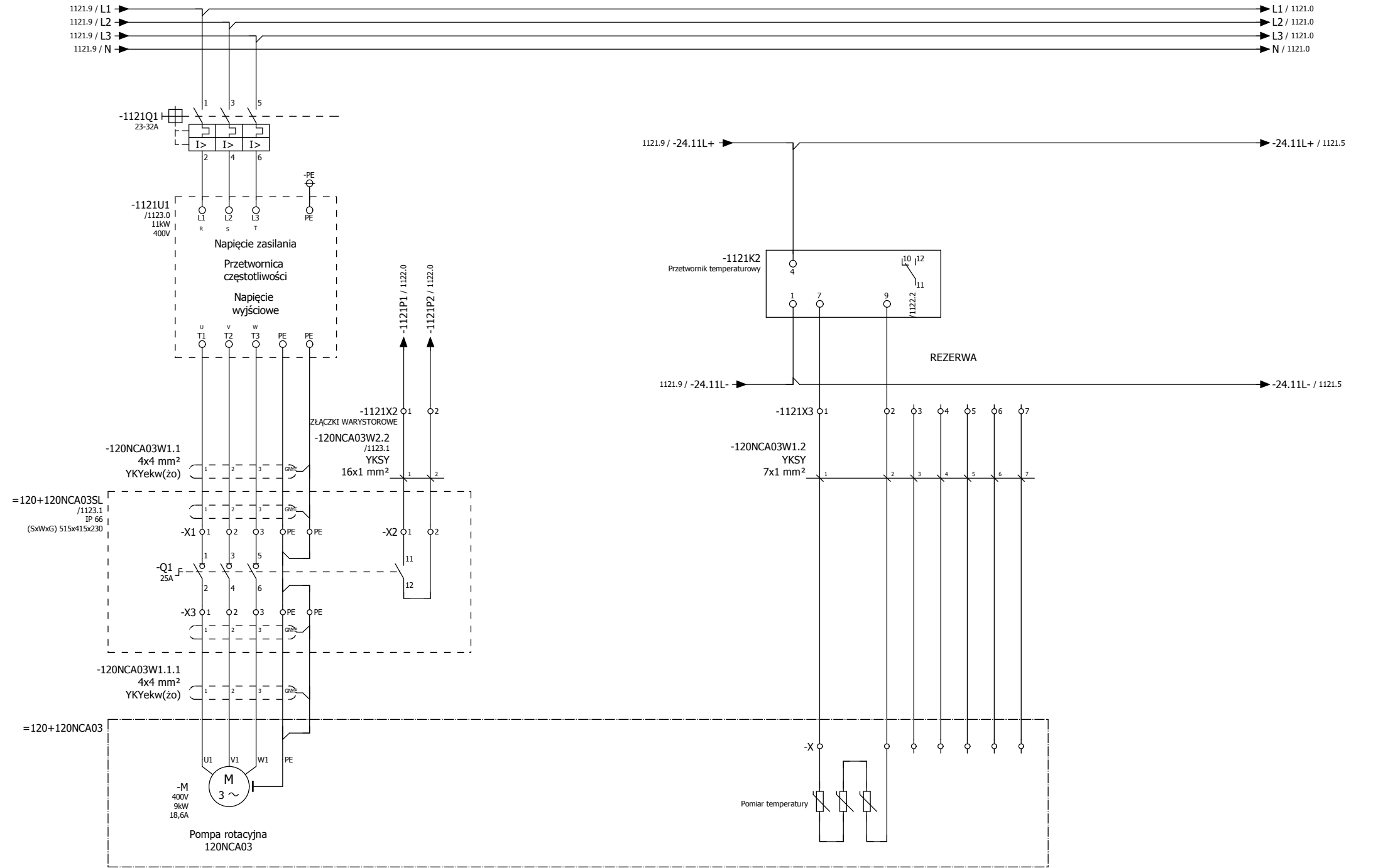
Szyny miedziane Cu 20x5 400V 50Hz

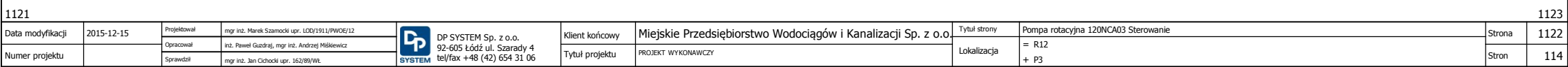


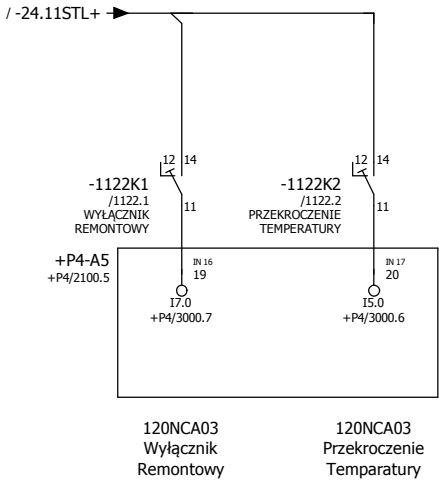


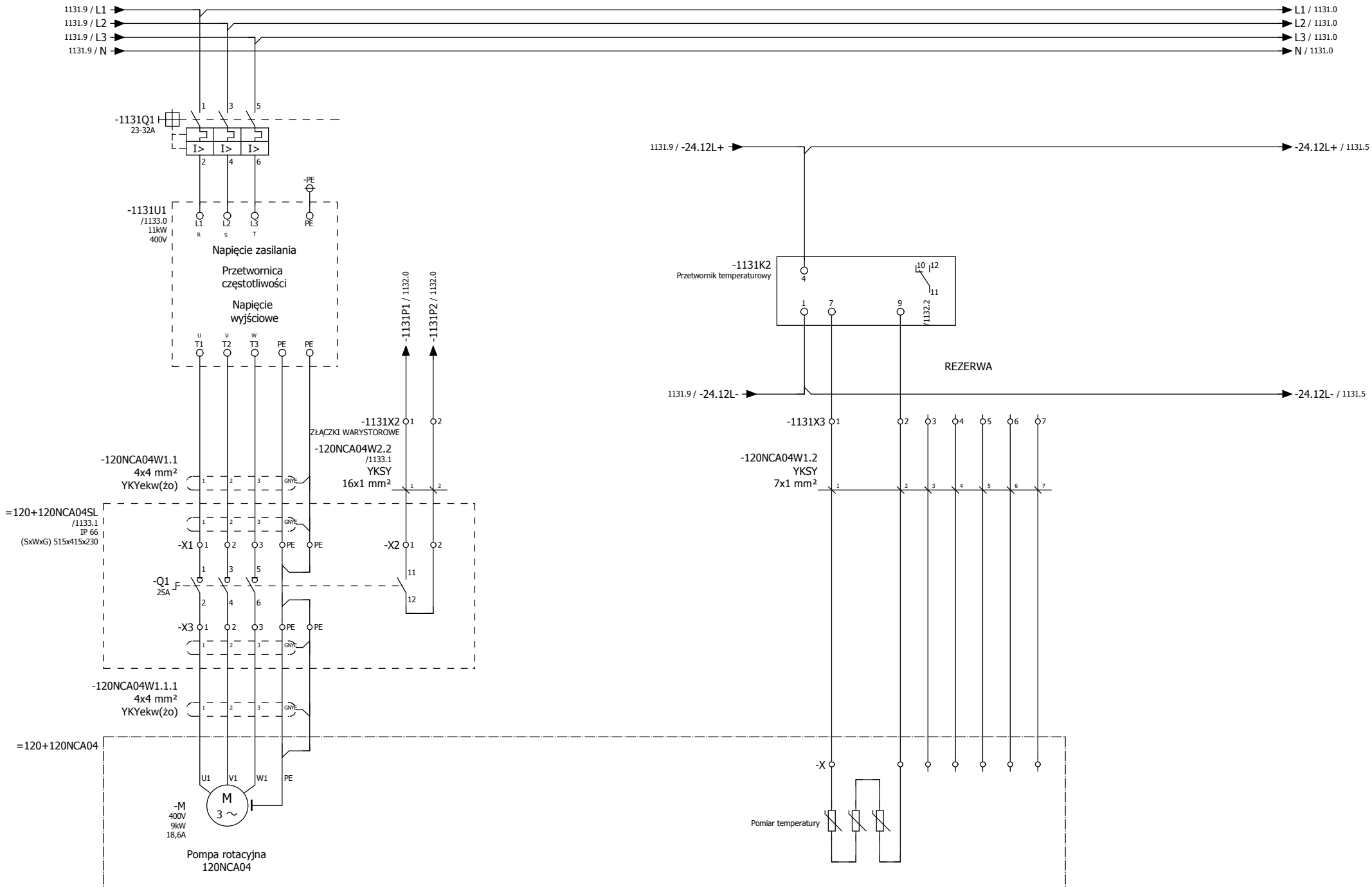


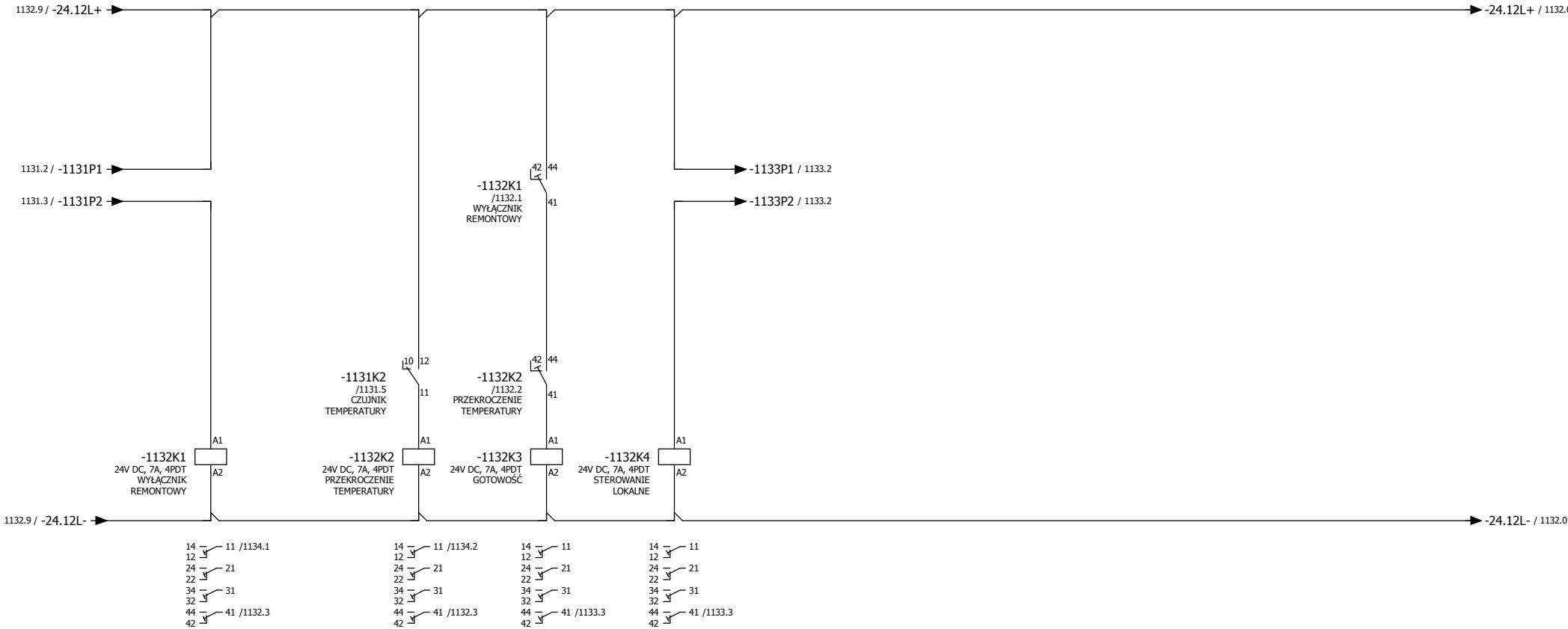
Szyny miedziane Cu 20x5 400V 50Hz

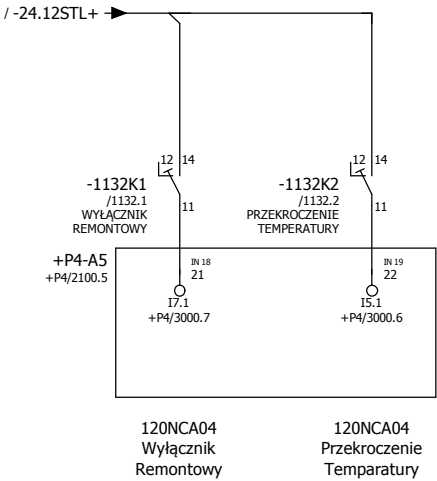


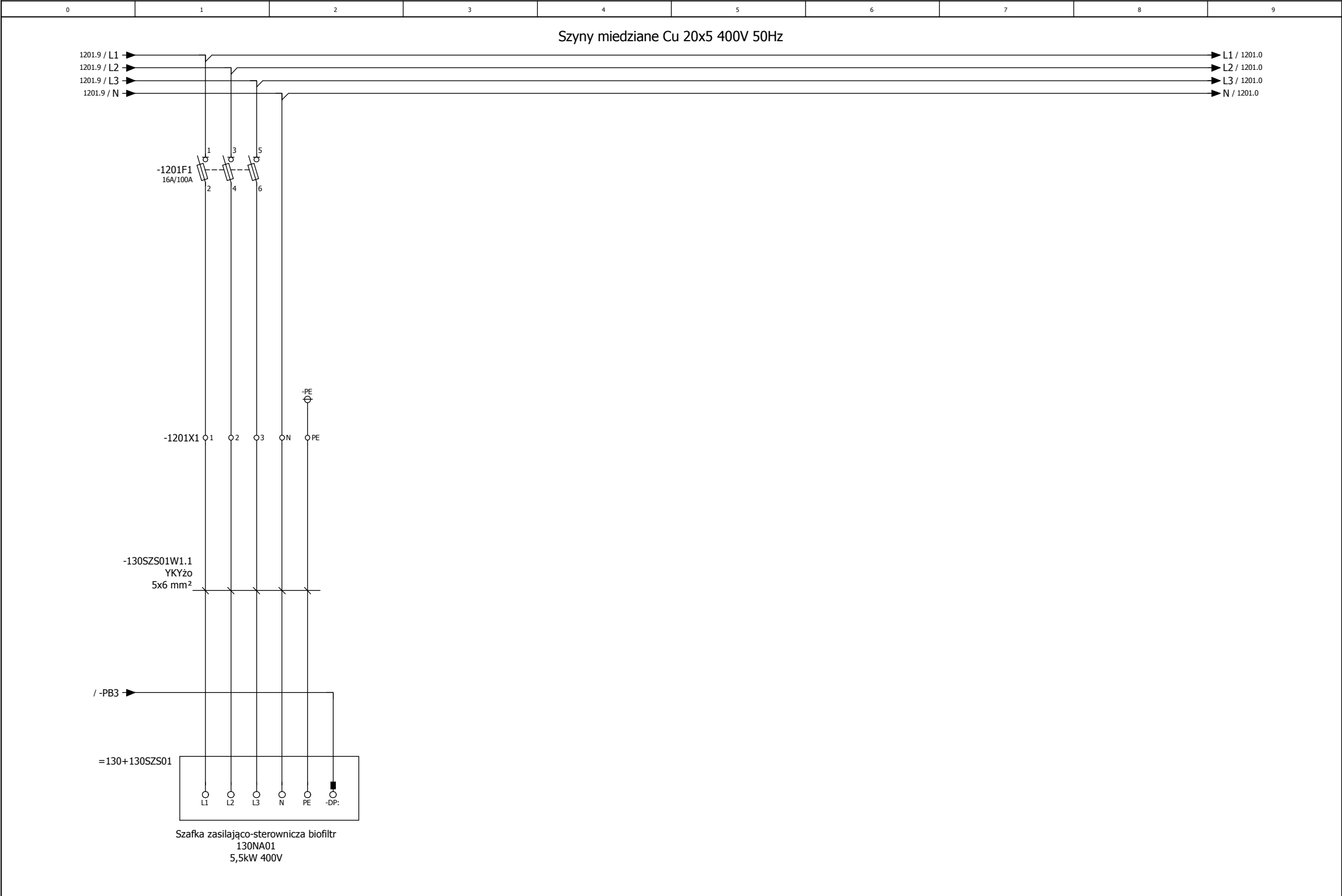




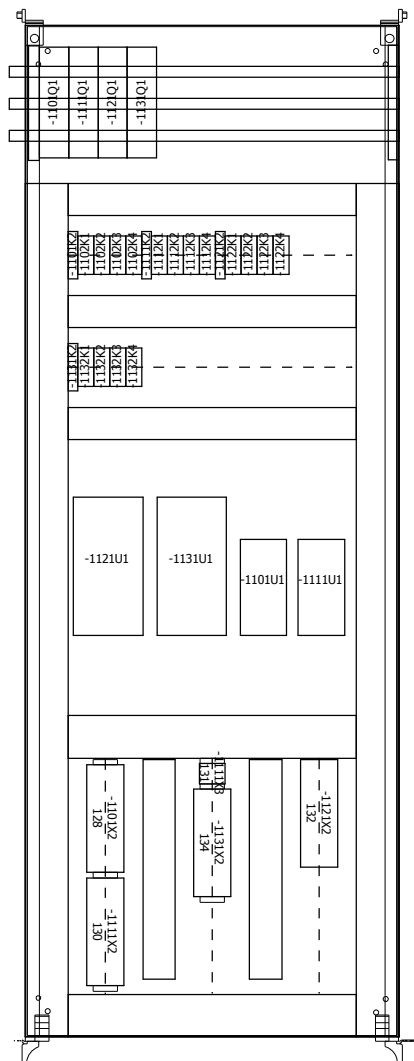








+P3



+P2/106.8 / +P2-UPSL

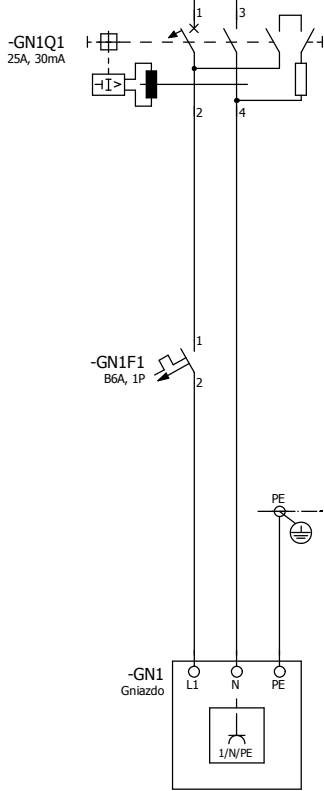
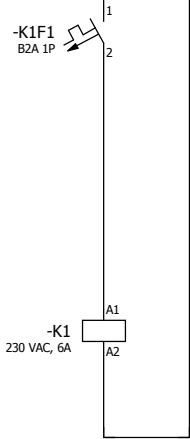
➔

L / 2500.0

+P2/106.8 / +P2-UPSN

➔

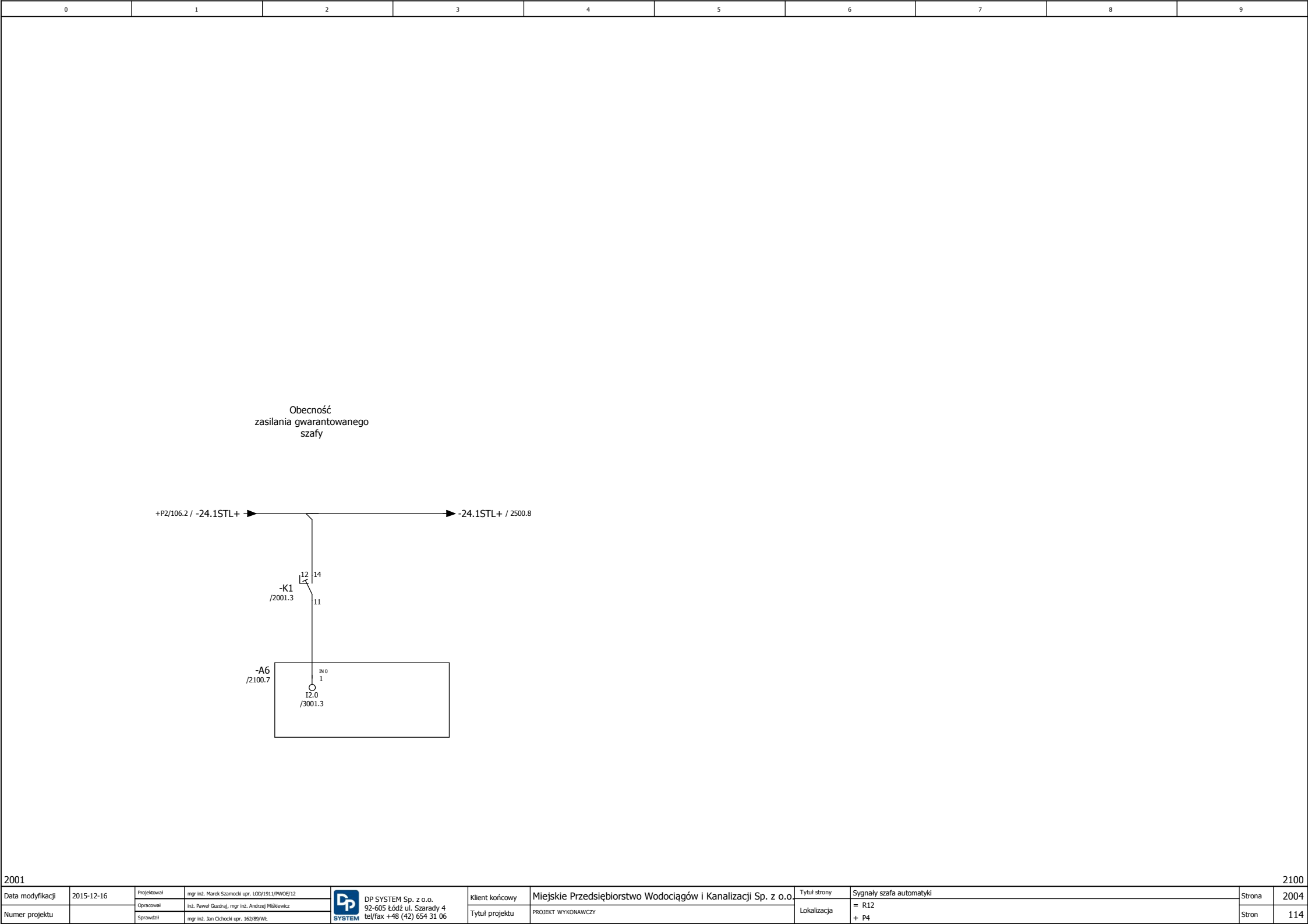
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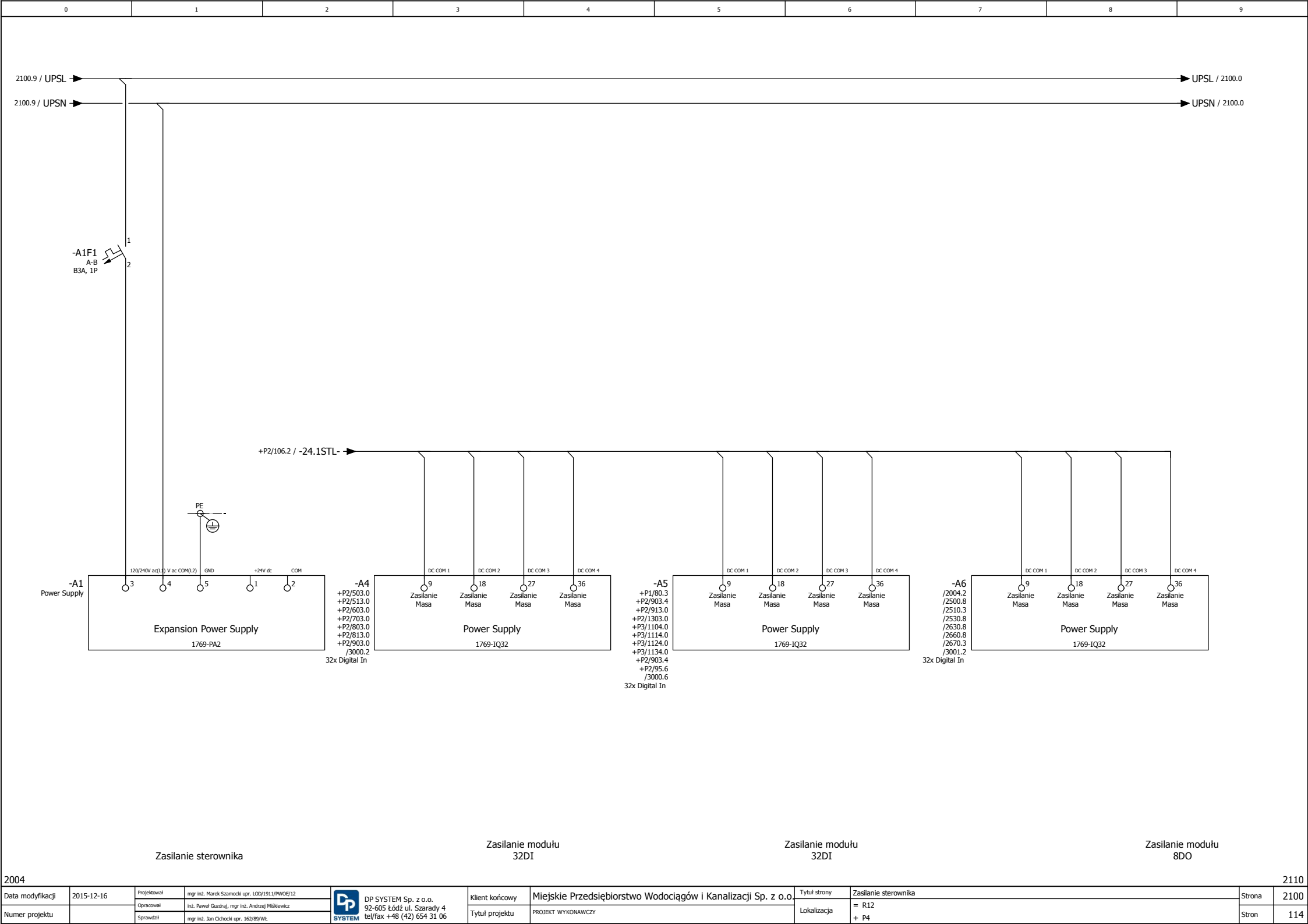


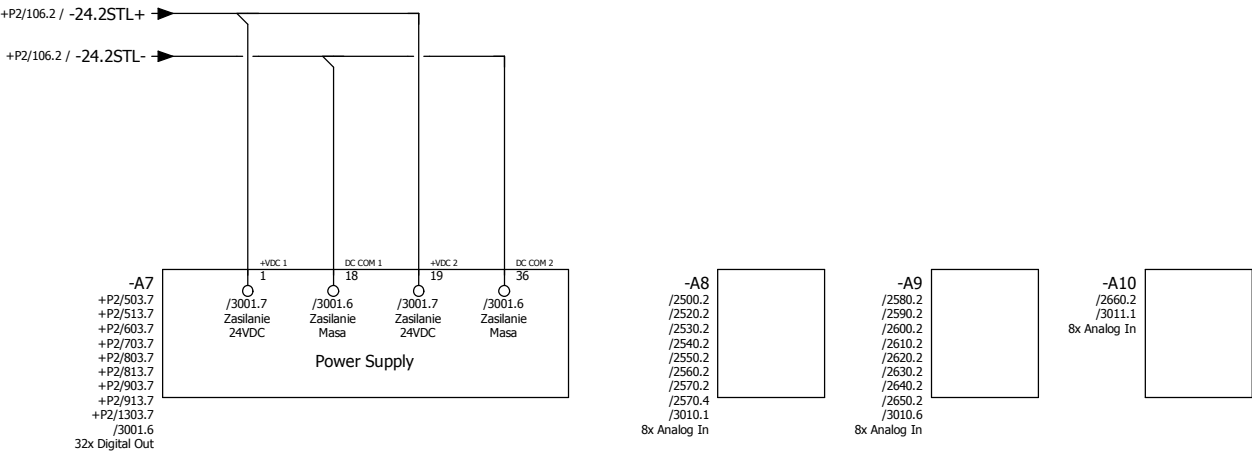
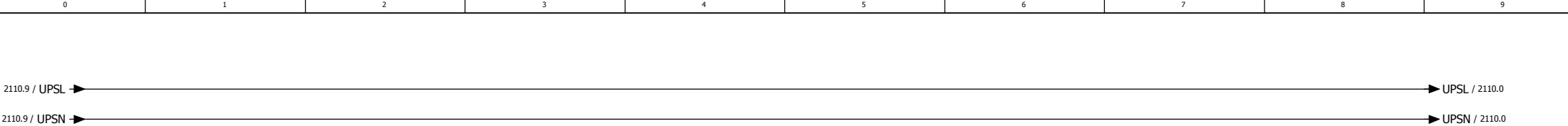
14
12

Obecność
zasilania gwarantowanego
szafy

Gniazdo
serwisowe





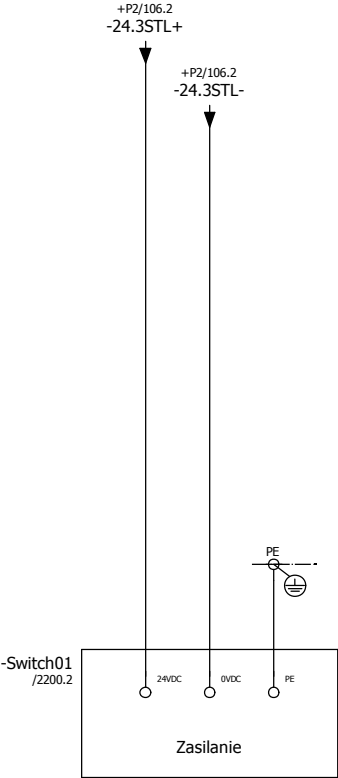


Zasilanie modułu32DO

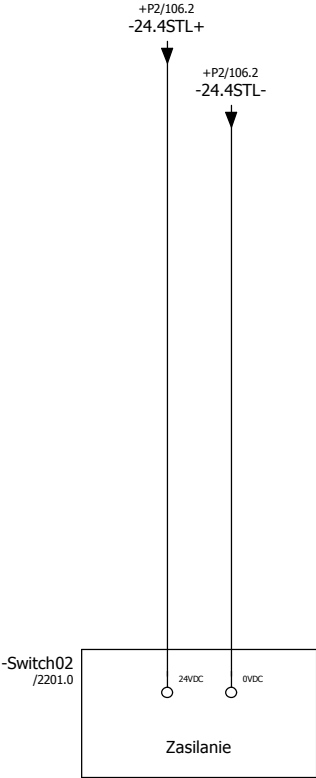
Zasilanie modułu8AI

Zasilanie modułu8AI

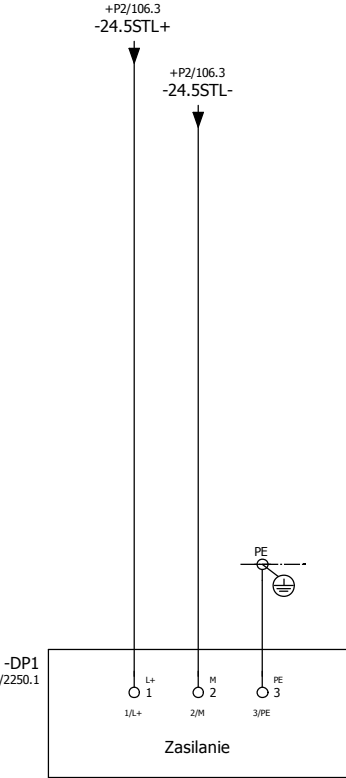
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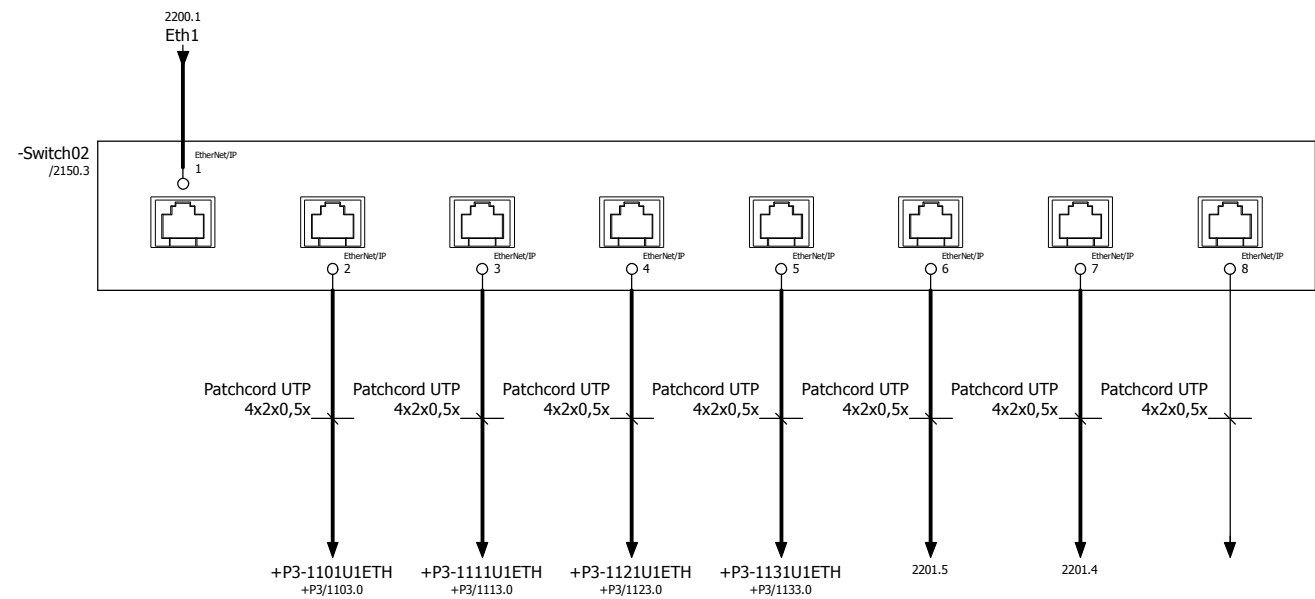
Zasilanie switch ethernetowy i światłowodowy

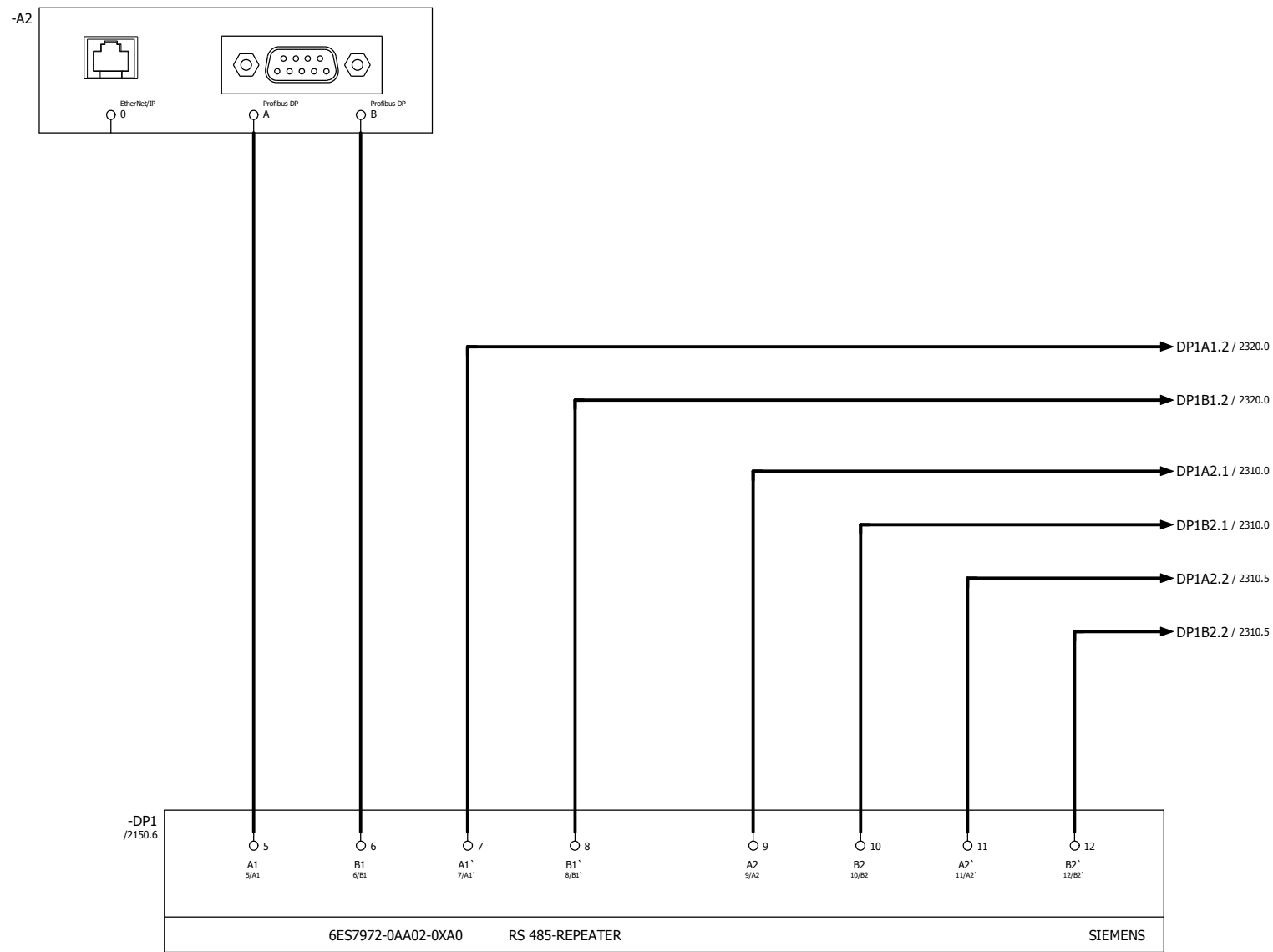


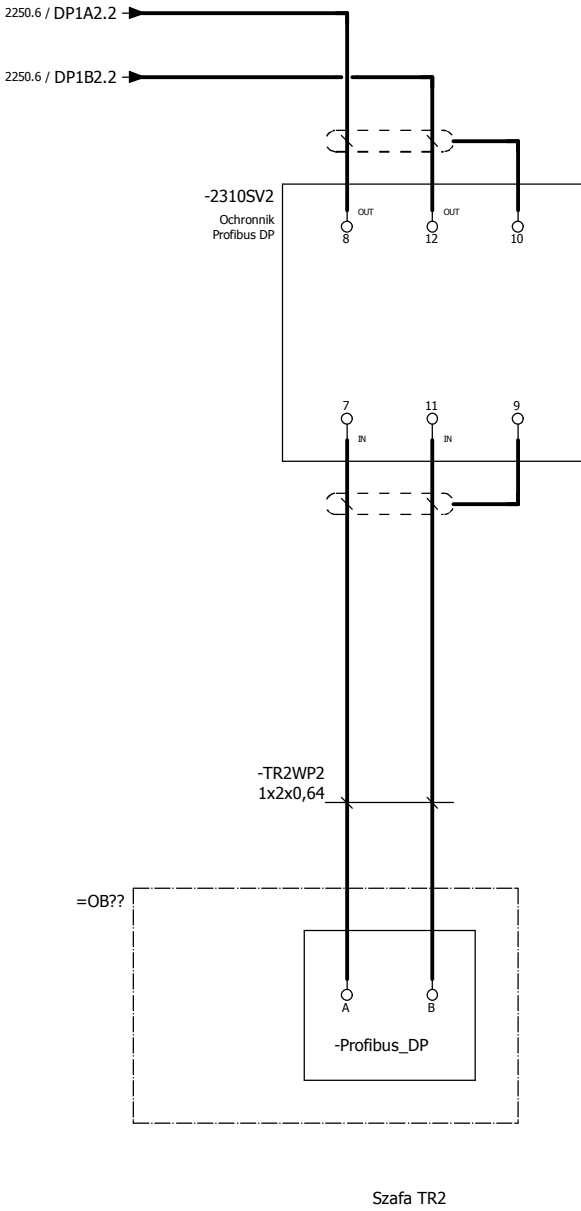
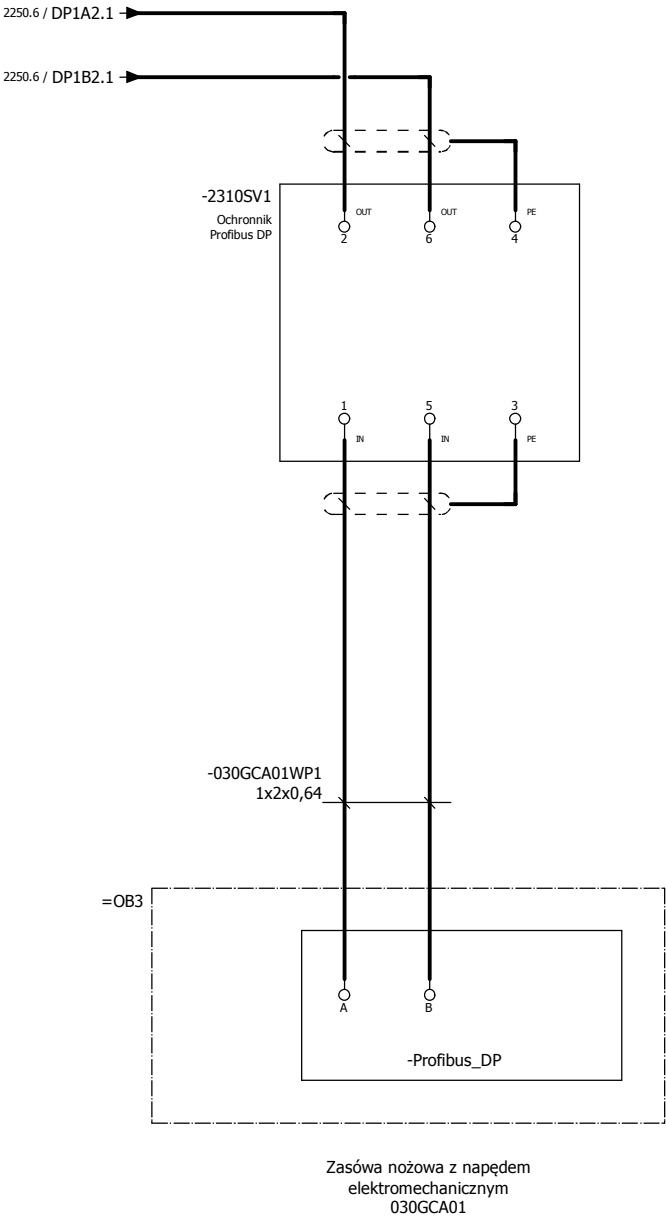
Zasilanie switch ethernetowy 8-portowy

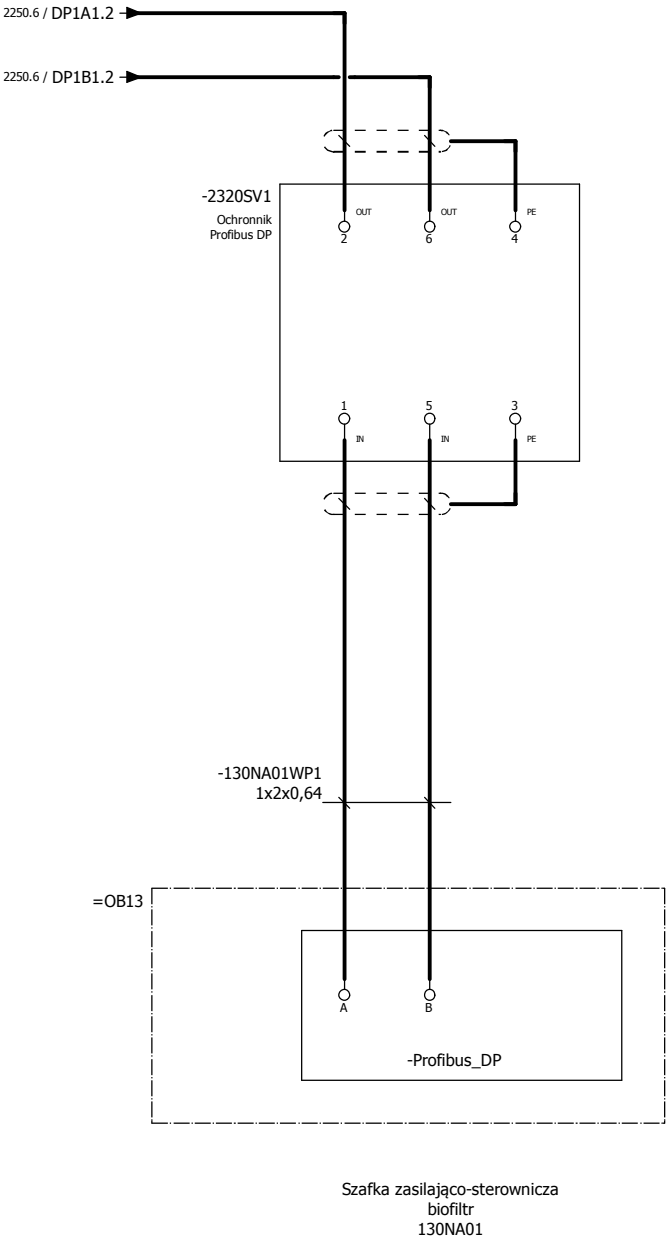


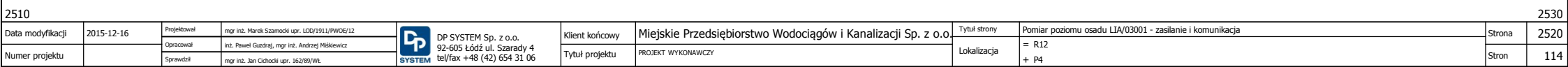
Zasilanie Repeater

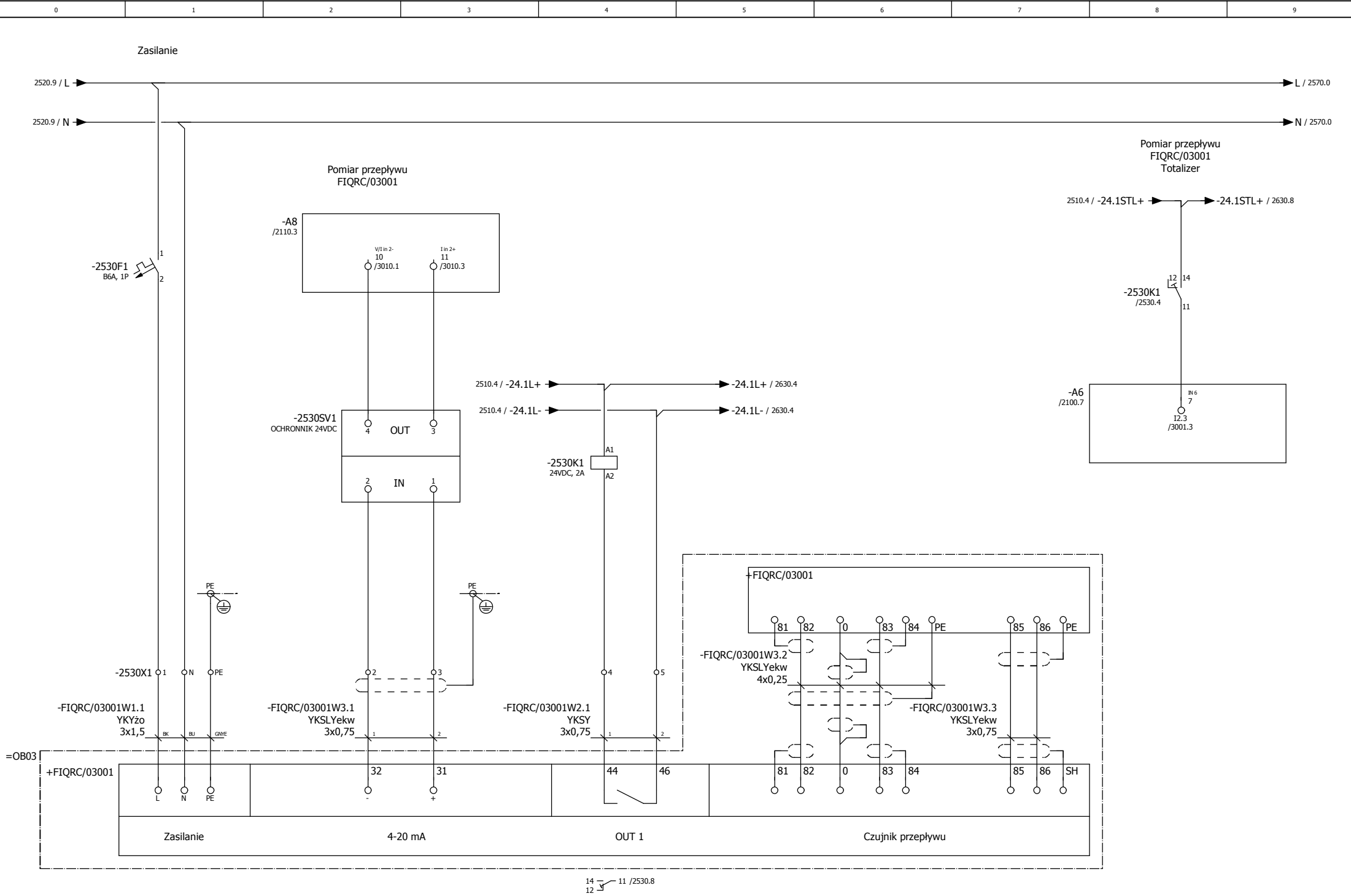


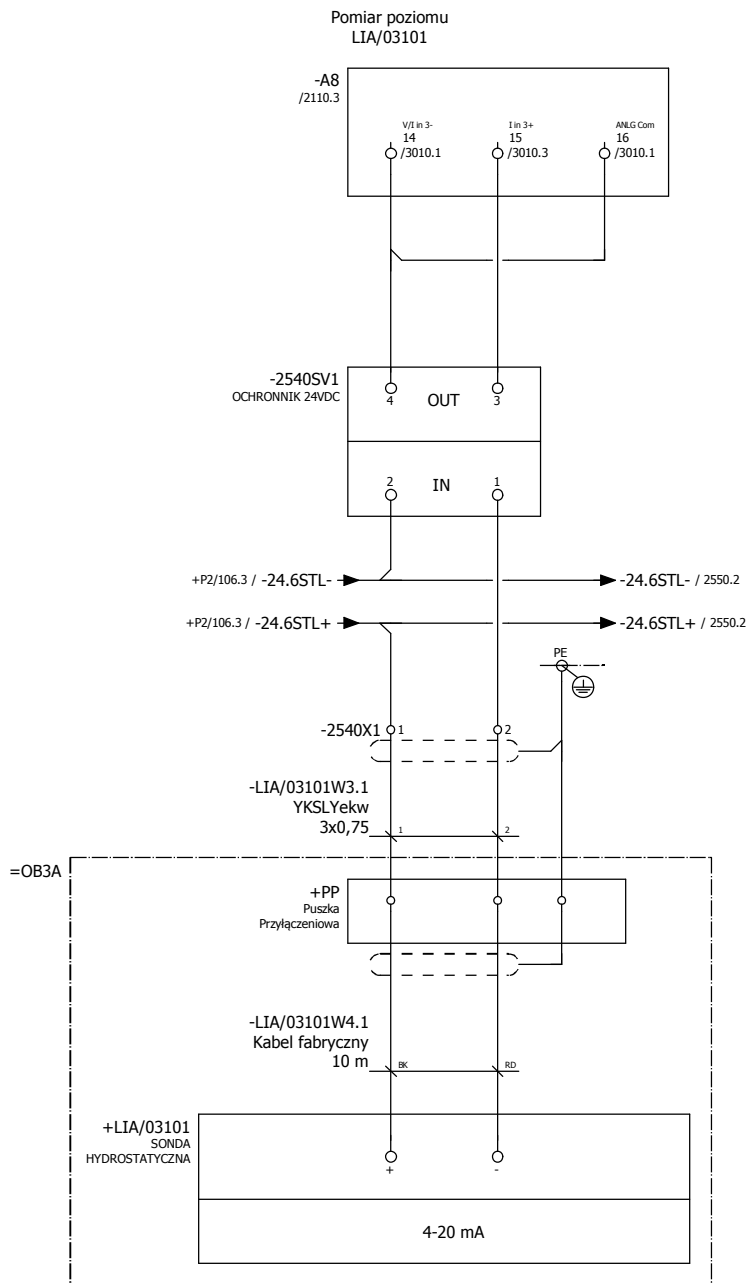


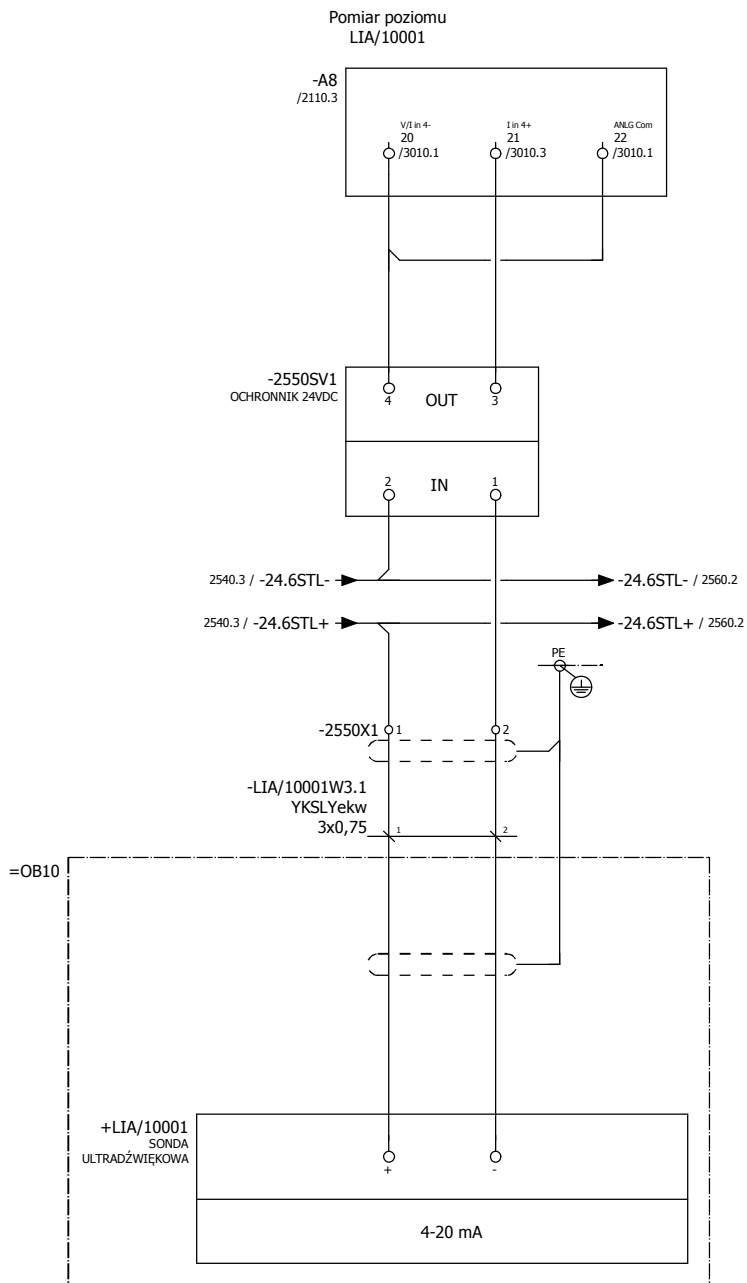


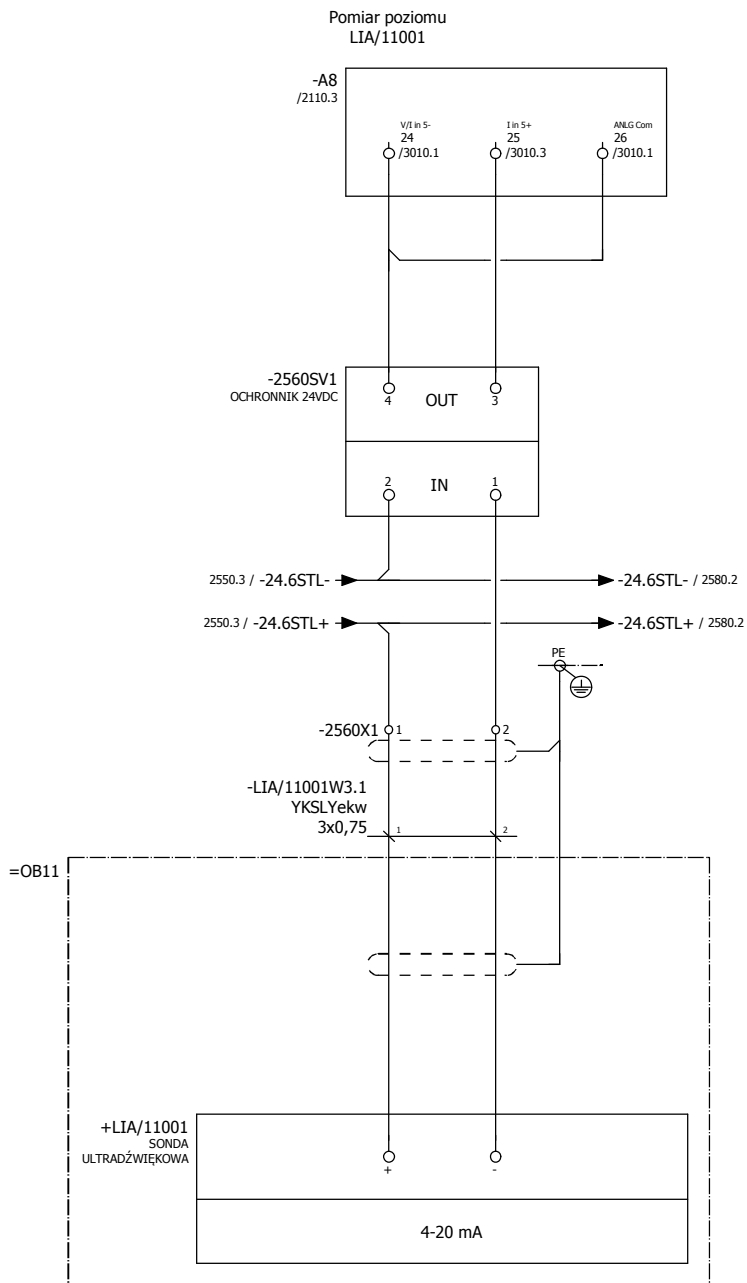


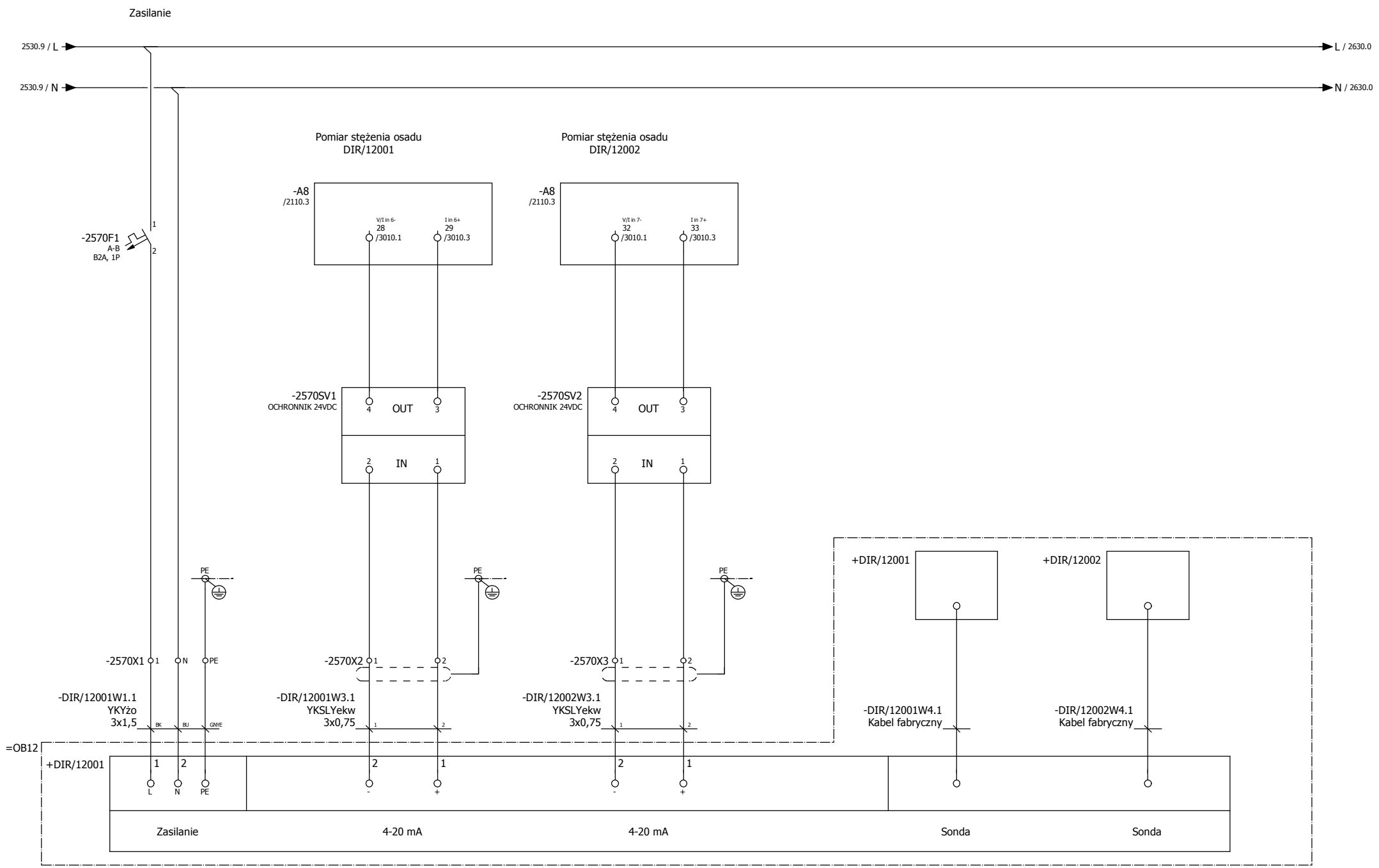


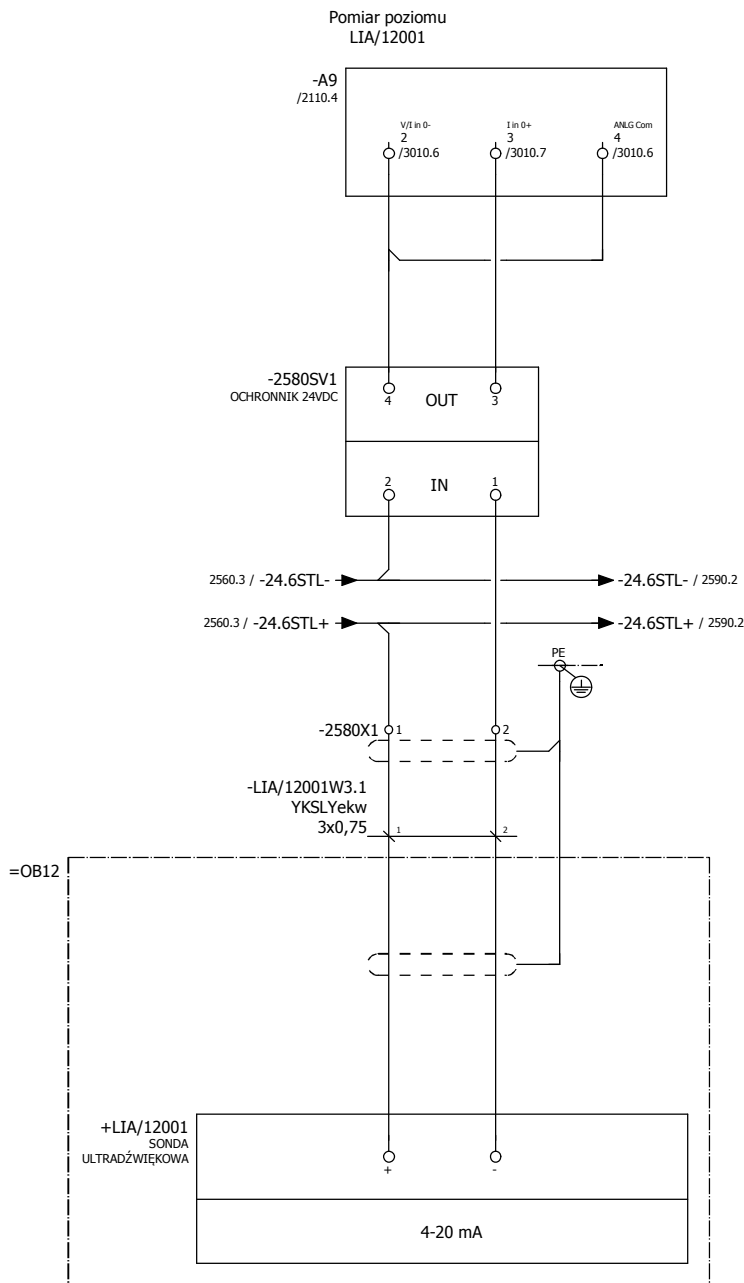


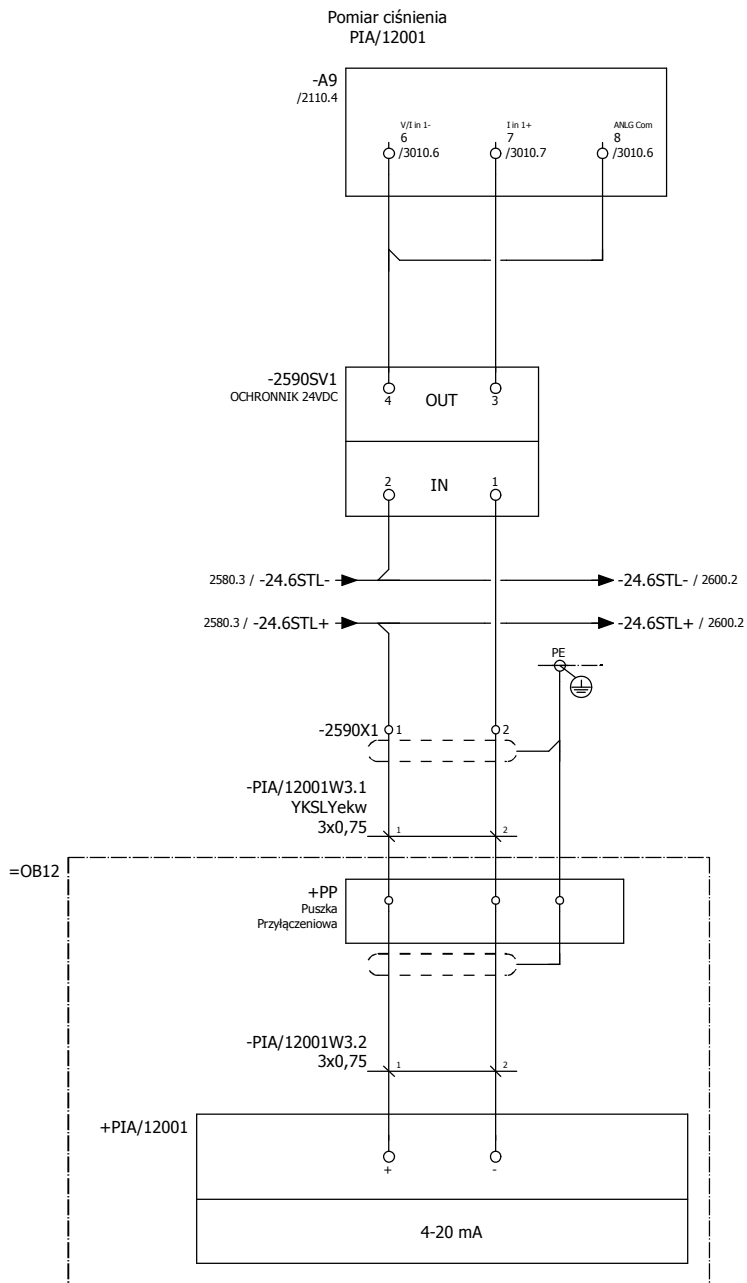


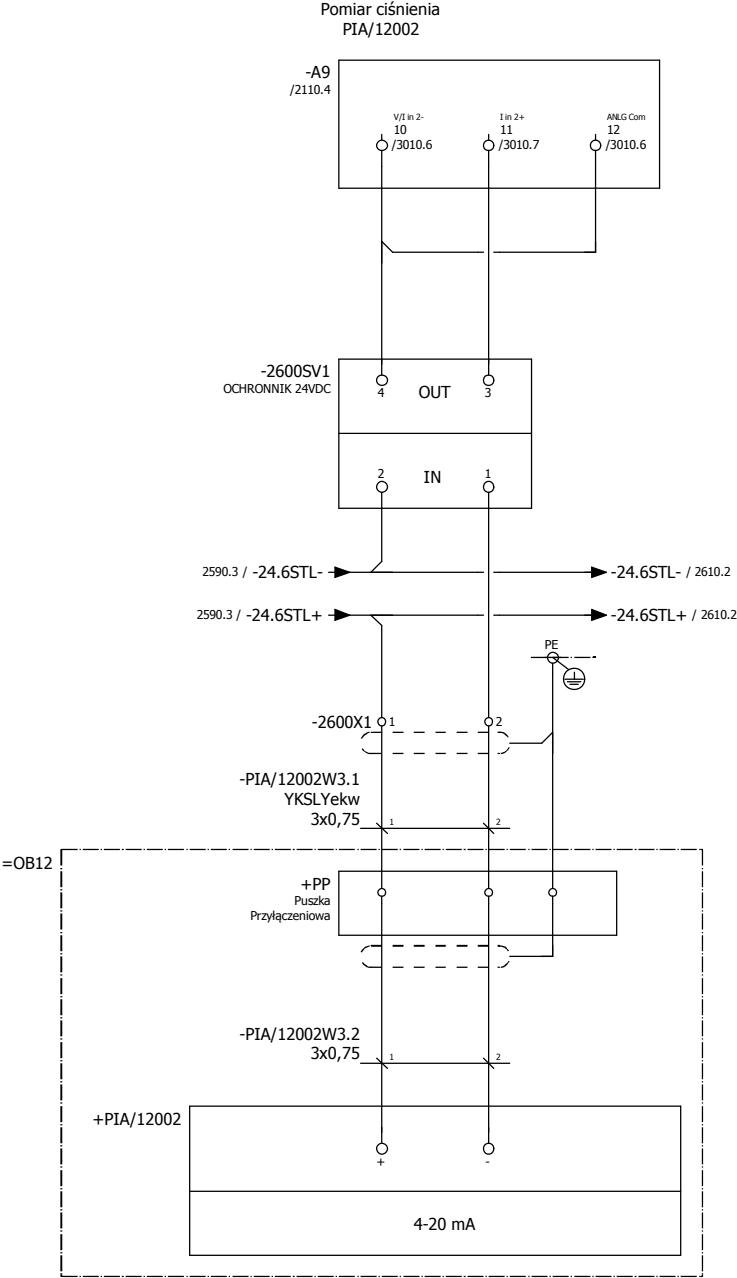




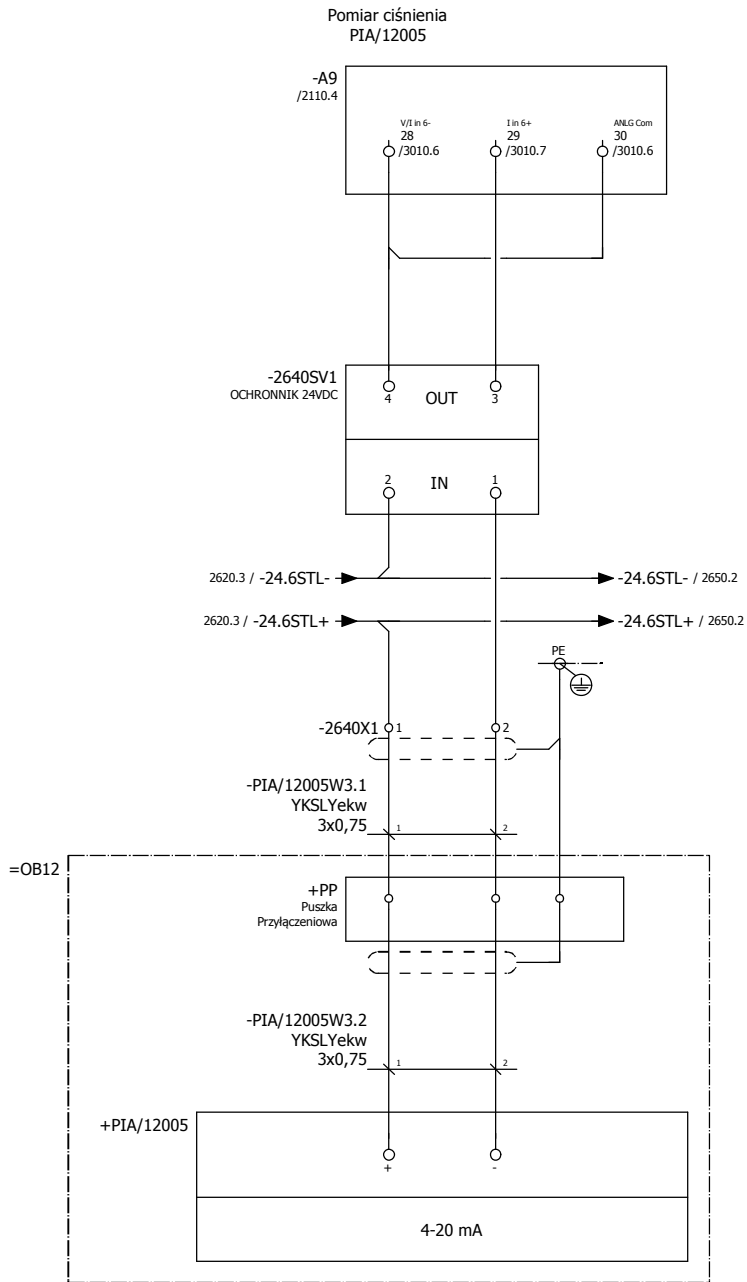


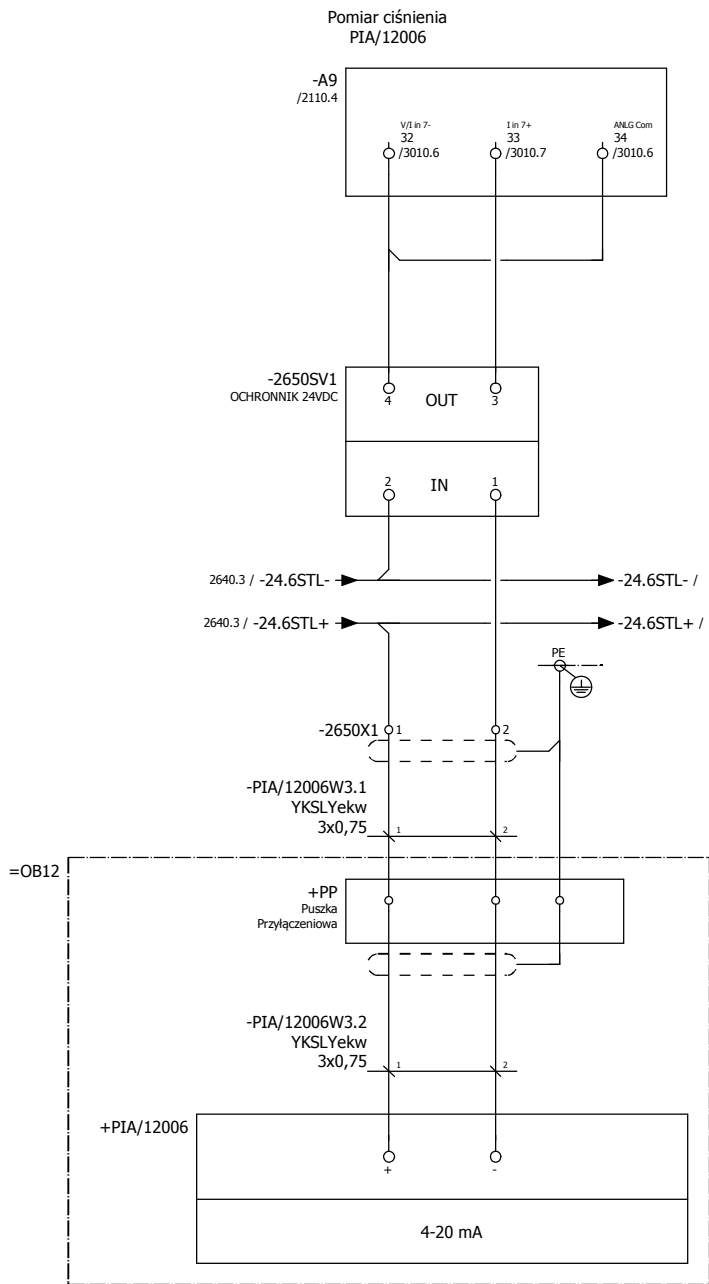


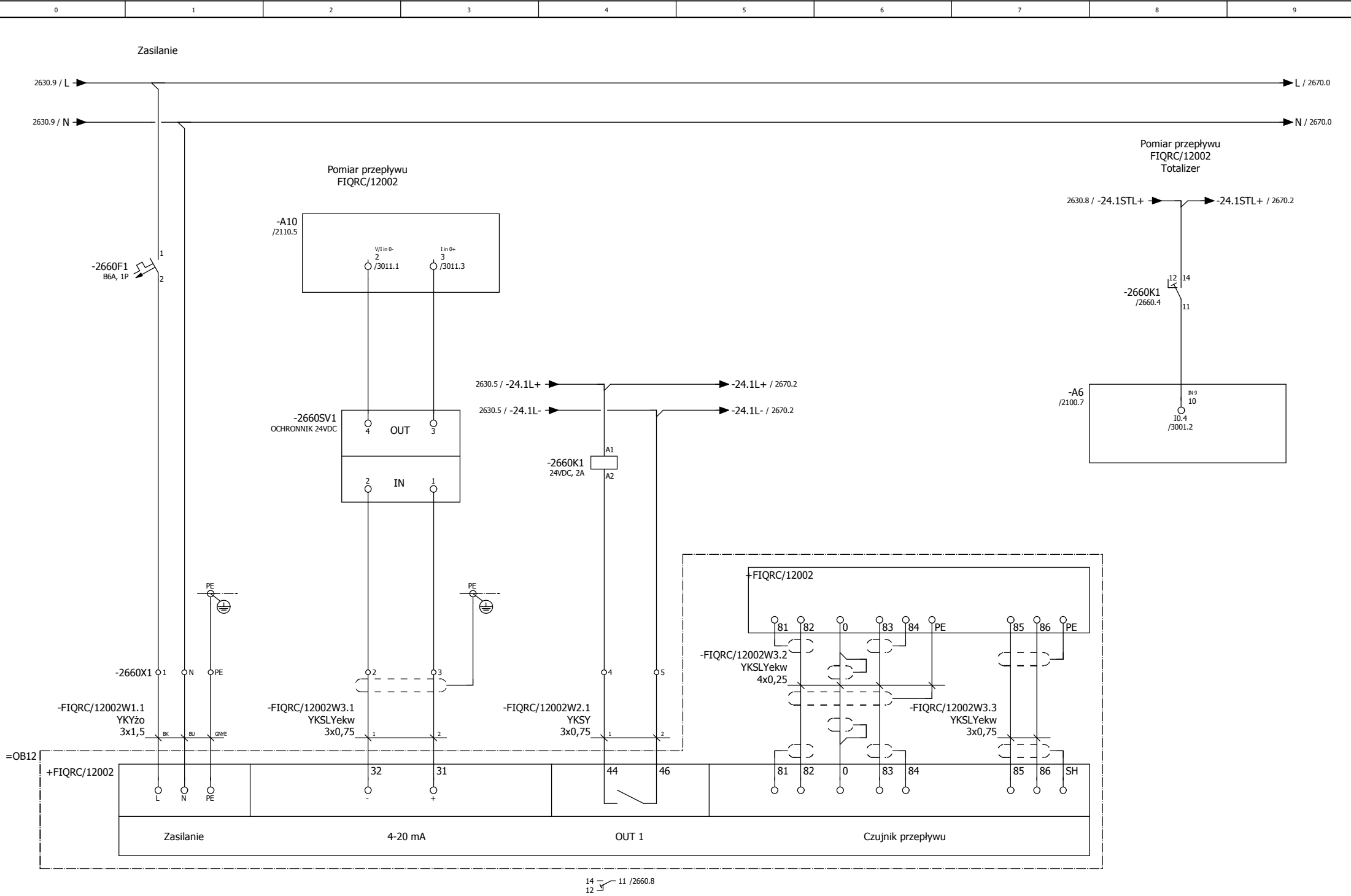












-A4					-A5				
32x Digital In					32x Digital In				
031NSA01 Praca	+P2/503.1	<div><div>2</div><div>IN 1</div><div>IO.0</div><div>+P2-502KM1:54</div><div>12.0</div><div>IN 0</div><div>1</div></div>							
031NSA01 Sterowanie Lokalne	+P2/503.2	<div><div>4</div><div>IN 3</div><div>IO.1</div><div>+P2-502K2:11</div><div>12.1</div><div>IN 2</div><div>3</div></div>	+P2-502K1:11	+P2/503.2	031NSA01 Gotowość				
031NSA01 Włącznik Bezpieczeństwa	+P2/503.4	<div><div>6</div><div>IN 5</div><div>IO.2</div><div>+P2-502KS:11</div><div>12.2</div><div>IN 4</div><div>5</div></div>	+P2-502K3:11	+P2/503.3	031NSA01 Sterowanie Zdalne				
031NSA02 Gotowość	+P2/513.2	<div><div>8</div><div>IN 7</div><div>IO.3</div><div>+P2-512K1:11</div><div>12.3</div><div>IN 6</div><div>7</div></div>	+P2-512KM1:54	+P2/513.1	031NSA02 Praca				
031NSA02 Sterowanie Zdalne	+P2/513.3	<div><div>10</div><div>IN 9</div><div>IO.4</div><div>+P2-512K3:11</div><div>12.4</div><div>IN 8</div><div>9</div></div>	DC COM 1	+P2/513.2	031NSA02 Sterowanie Lokalne				
100NA01 Praca	+P2/603.1	<div><div>12</div><div>IN 11</div><div>IO.5</div><div>+P2-602KM1:54</div><div>12.4</div><div>IN 8</div><div>11</div></div>	+P2-512K5:11	+P2/513.4	031NSA02 Włącznik Bezpieczeństwa				
100NA01 Sterowanie Lokalne	+P2/603.2	<div><div>14</div><div>IN 13</div><div>IO.6</div><div>+P2-602K2:11</div><div>12.5</div><div>IN 10</div><div>13</div></div>	+P2-602K1:11	+P2/603.2	100NA01 Gotowość				
100NA01 Włącznik Bezpieczeństwa	+P2/603.4	<div><div>16</div><div>IN 15</div><div>IO.7</div><div>+P2-602KS:11</div><div>12.6</div><div>IN 12</div><div>15</div></div>	+P2-602K3:11	+P2/603.3	100NA01 Sterowanie Zdalne				
110NA01 Gotowość	+P2/703.2	<div><div>18</div><div>DC COM 2</div><div></div><div></div><div>12.7</div><div>IN 14</div><div>17</div></div>	+P2-702KM1:54	+P2/703.1	110NA01 Praca				
110NA01 Sterowanie Zdalne	+P2/703.3	<div><div>20</div><div>IN 17</div><div>IO.0</div><div>+P2-702K3:11</div><div>13.0</div><div>IN 16</div><div>19</div></div>	+P2-702K2:11	+P2/703.2	110NA01 Sterowanie Lokalne				
120NSA01 Praca	+P2/803.1	<div><div>22</div><div>IN 19</div><div>IO.1</div><div>+P2-802KM1:54</div><div>13.1</div><div>IN 18</div><div>21</div></div>	+P2-702K5:11	+P2/703.4	110NA01 Włącznik Bezpieczeństwa				
120NSA01 Sterowanie Lokalne	+P2/803.2	<div><div>24</div><div>IN 21</div><div>IO.2</div><div>+P2-802K2:11</div><div>13.2</div><div>IN 20</div><div>23</div></div>	+P2-802K1:11	+P2/803.2	120NSA01 Gotowość				
120NSA01 Włącznik Bezpieczeństwa	+P2/803.4	<div><div>26</div><div>IN 23</div><div>IO.3</div><div>+P2-802KS:11</div><div>13.3</div><div>IN 22</div><div>25</div></div>	+P2-802K3:11	+P2/803.3	120NSA01 Sterowanie Zdalne				
120NSA02 Praca	+P2/813.1	<div><div>28</div><div>IN 25</div><div>IO.4</div><div>+P2-812KM1:54</div><div>13.4</div><div>IN 24</div><div>27</div></div>	DC COM 3	/2100.4	Zasilanie Masa				
120NSA02 Sterowanie Lokalne	+P2/813.2	<div><div>30</div><div>IN 27</div><div>IO.5</div><div>+P2-812K2:11</div><div>13.4</div><div>IN 26</div><div>29</div></div>	+P2-812K1:11	+P2/813.2	120NSA02 Gotowość				
120NSA02 Włącznik Bezpieczeństwa	+P2/813.4	<div><div>32</div><div>IN 29</div><div>IO.6</div><div>+P2-812KS:11</div><div>13.5</div><div>IN 28</div><div>31</div></div>	+P2-812K3:11	+P2/813.3	120NSA02 Sterowanie Zdalne				
120NA01 Gotowość	+P2/903.2	<div><div>34</div><div>IN 31</div><div>IO.7</div><div>+P2-902K1:11</div><div>13.6</div><div>IN 30</div><div>33</div></div>	+P2-902KM1:54	+P2/903.1	120NA01 Praca				
Zasilanie Masa	/2100.4	<div><div>36</div><div>DC COM 4</div><div></div><div></div><div>13.7</div><div>IN 30</div><div>35</div></div>	+P2-902K2:11	+P2/903.2	120NA01 Sterowanie Lokalne				
1769-IQ32					1769-IQ32				

