



BERG Kompressoren GmbH
Compressed Air Technology | Air Separation

Operation and Maintenance Manual - Electrical part

Project name: KOMPBERG BSDF 75

Project number: 786-269-100

Index: EIE0575

Index version: 2

Power supply: 400V/50Hz/3ph

Power supply type: L1, L2, L3, PE

Controller: S7-1200

Last change: 14.07.2020

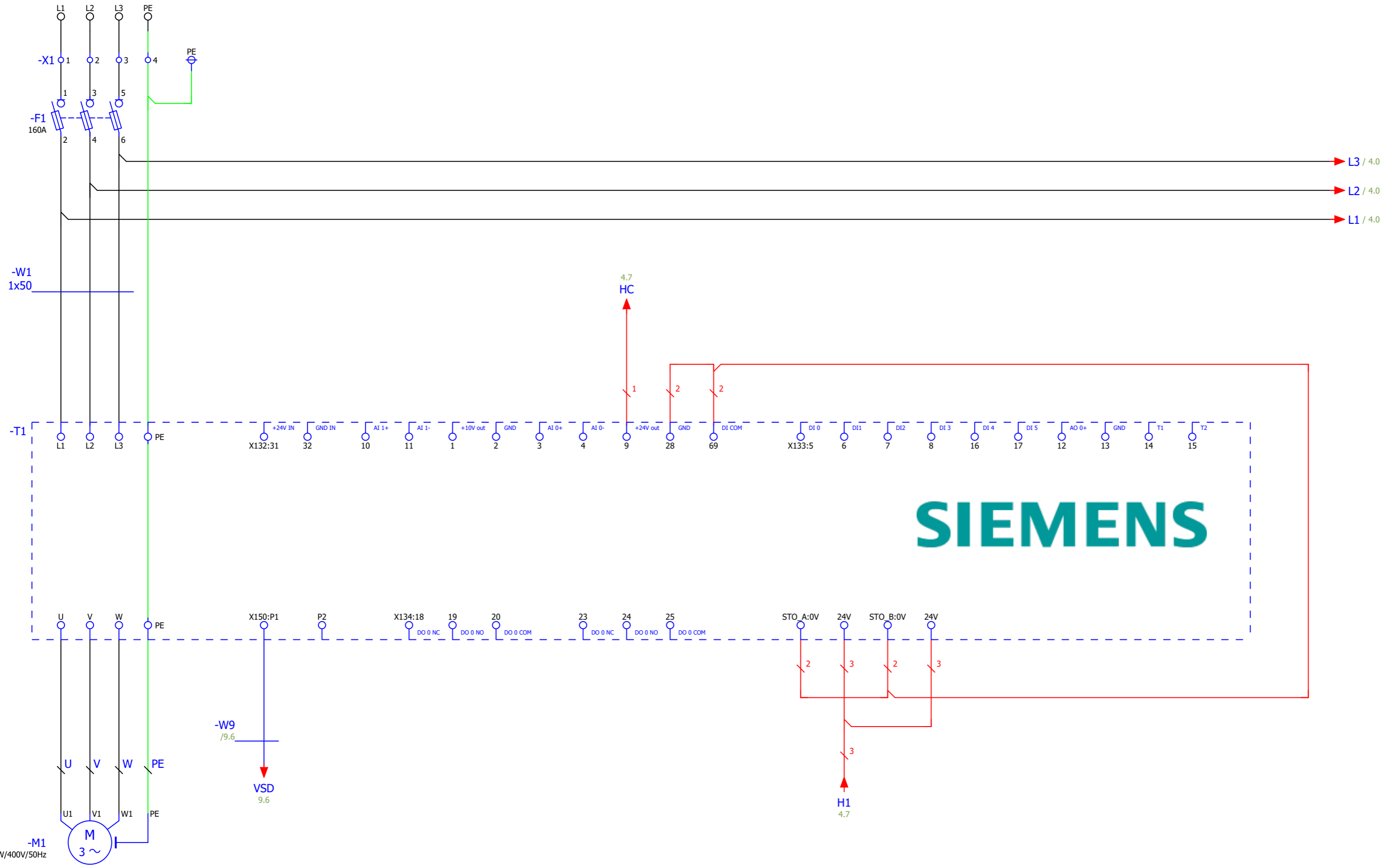
Number of pages: 15

Notes: Siemens



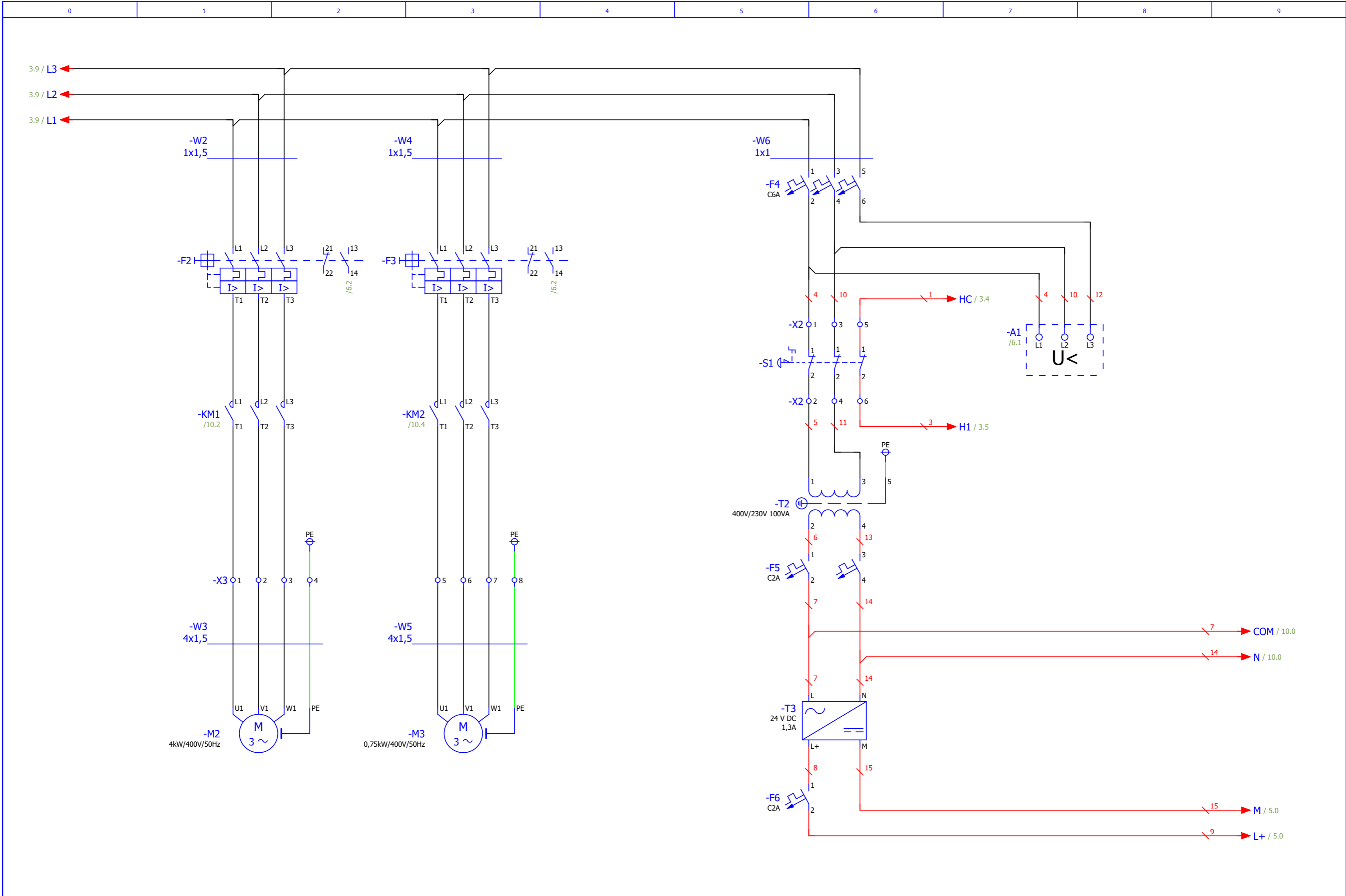
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SIEMENS





Modification date: 14.07.2020
 Designed by: mkowalka
 Checked by: r.dawid

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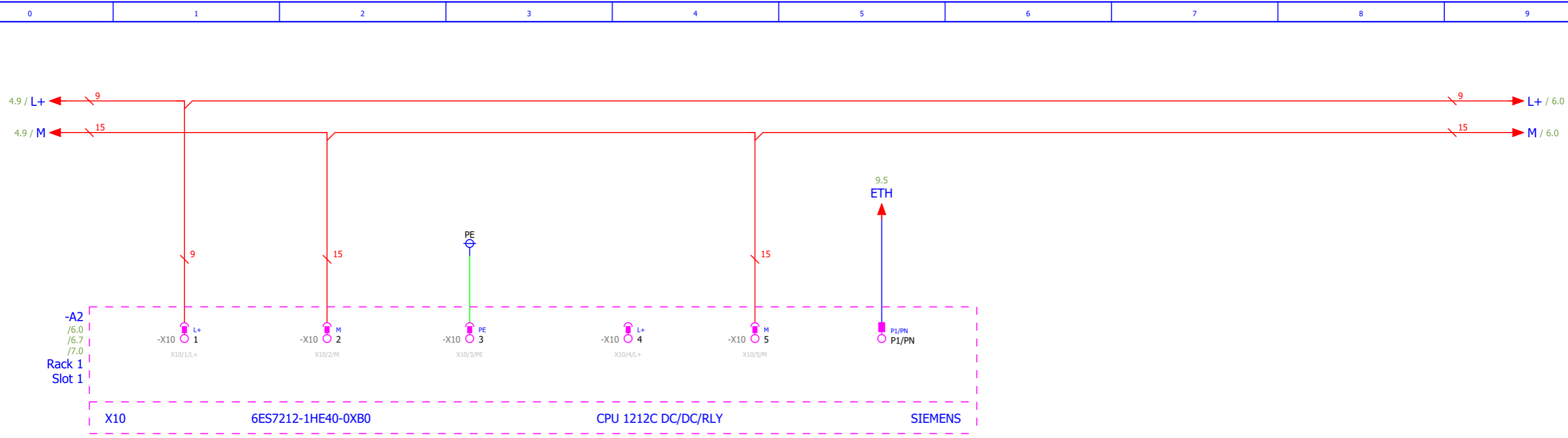


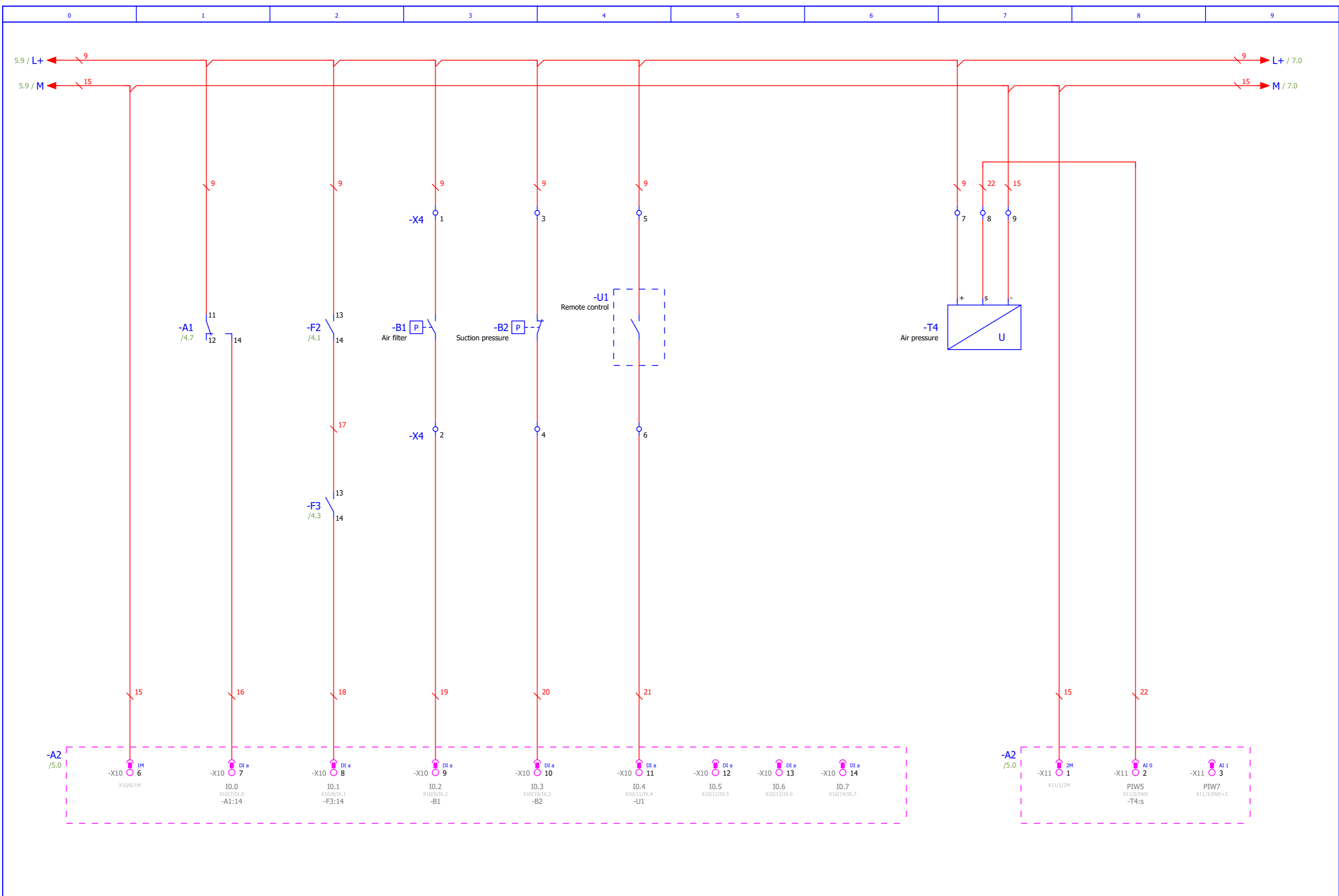
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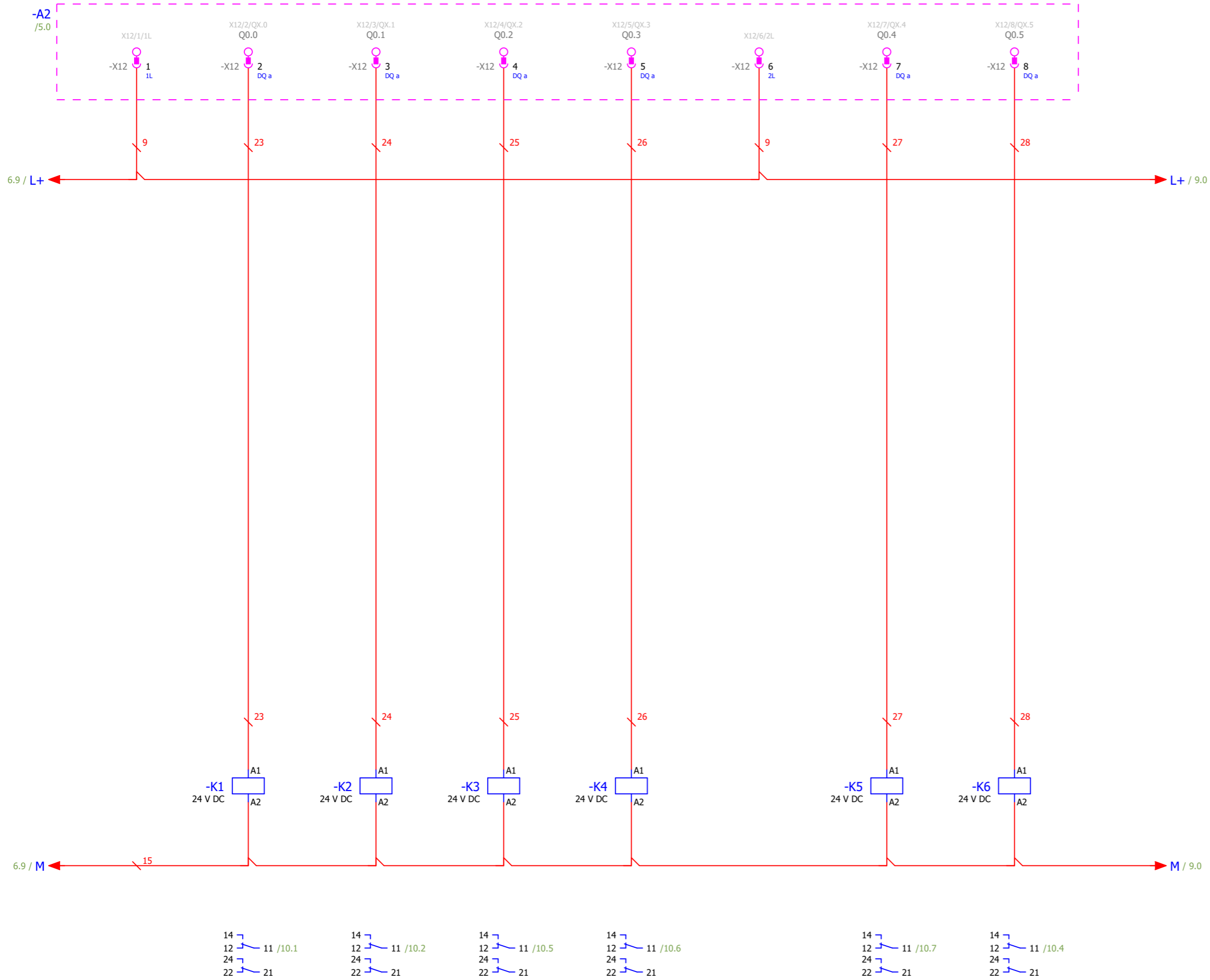
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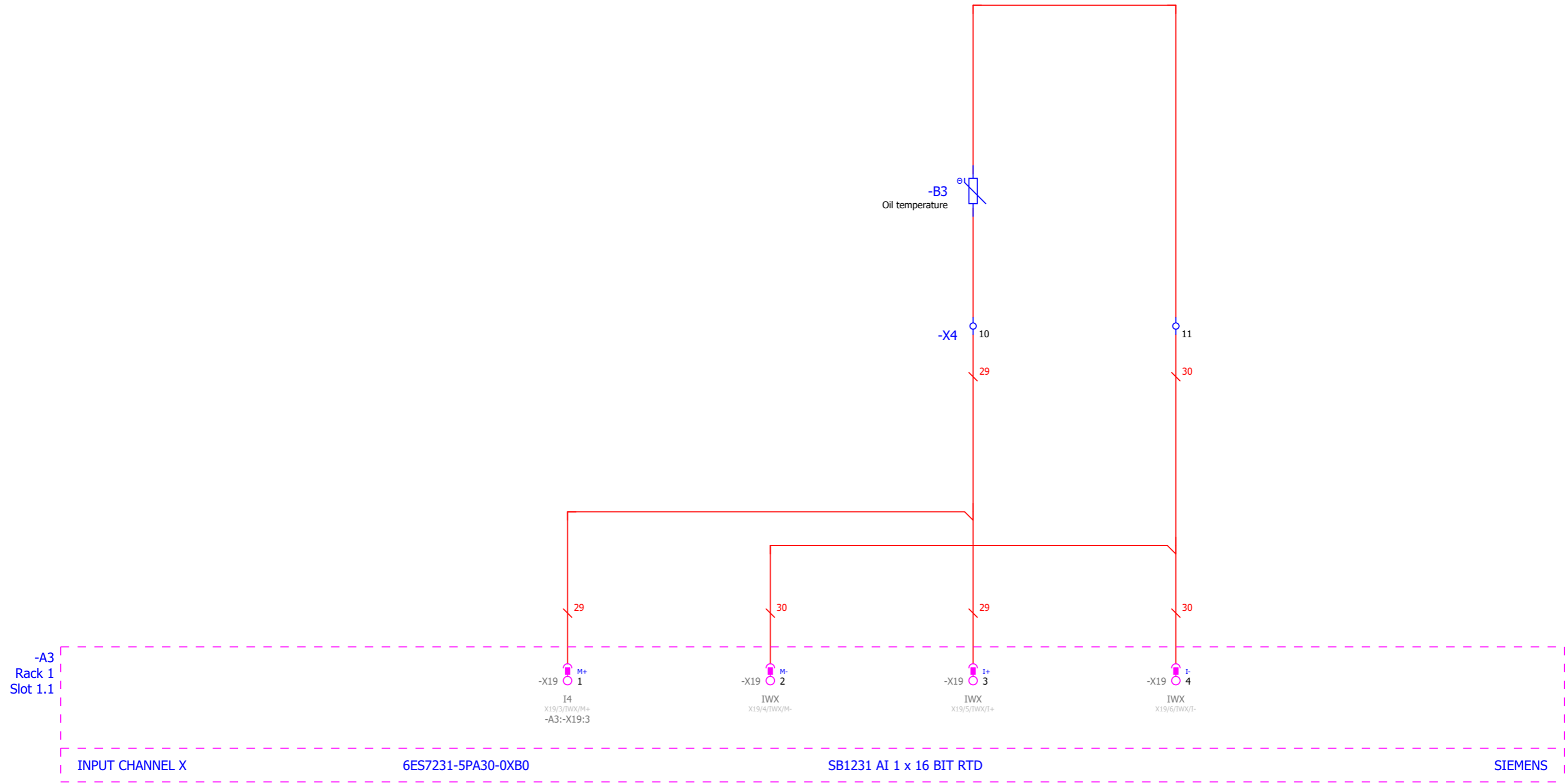
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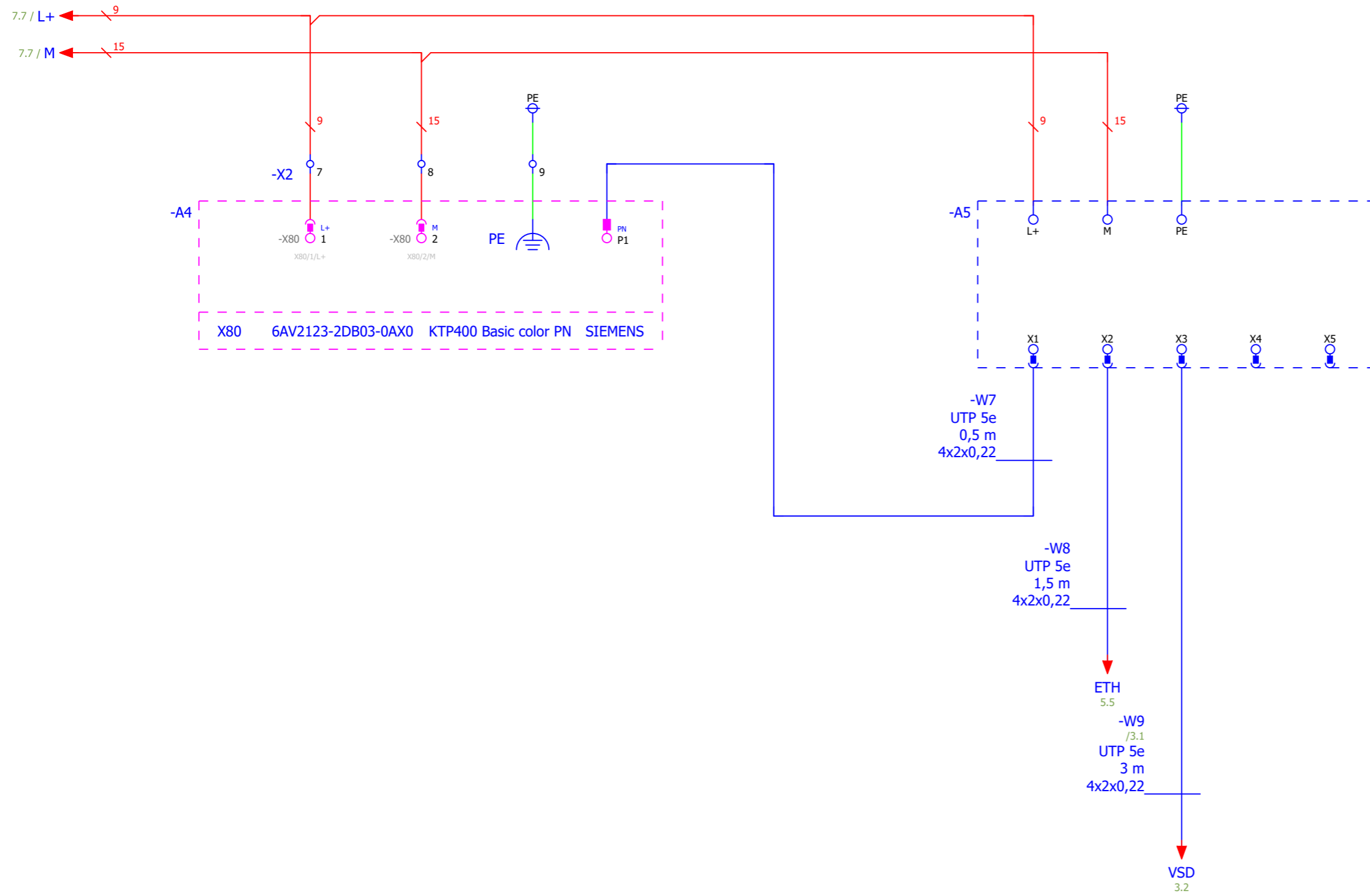
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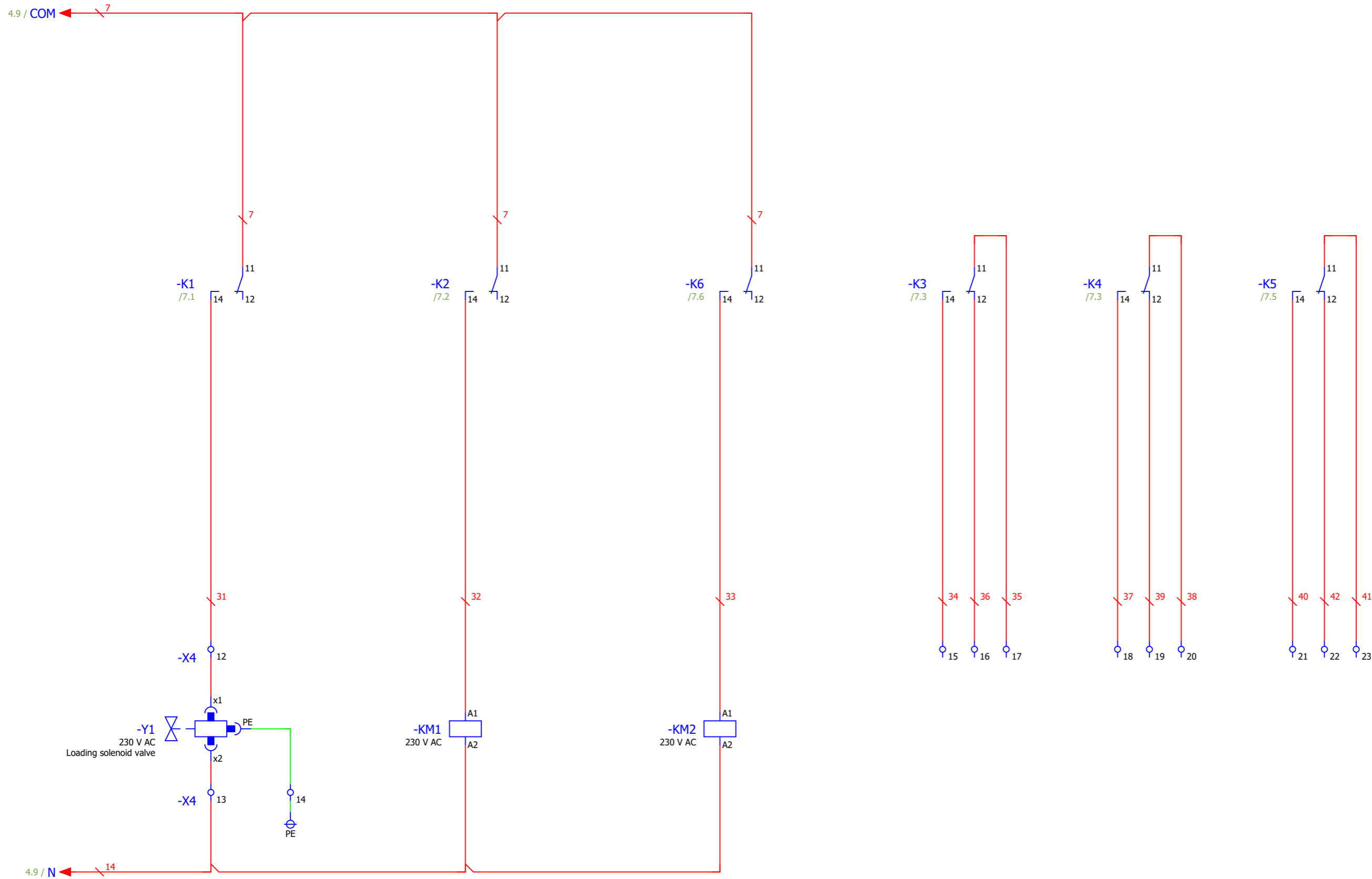












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| <ul style="list-style-type: none"> L1 T1 /4.1 L2 T2 /4.1 L3 T3 /4.2 31 32 43 44 | <ul style="list-style-type: none"> L1 T1 /4.3 L2 T2 /4.3 L3 T3 /4.3 31 32 43 44 |
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List of articles

Apparatus identifier	Function	Technical data	Manufacturer	Type number	Notes	Index	Quantity
-A1	Phase monitor		Omron	K8AB-PH		ECE0578	1
-A2	PLC controller CPU1212C DC/DC/RLY		Siemens	6ES7212-1HE40-0XB0		ESM0085	1
-A3	Signal board SB1231 1xRTD		Siemens	6ES7231-5PA30-0XB0		ECE0744	1
-A4	Operator panel KTP400		Siemens	6AV2123-2DB03-0AX0		ECE0814	1
-A5	Switch		Phoenix Contact	SWITCH SFNB 5TX		ECE0619	1
-A6	Modul CM1241 RS485		Siemens	6ES7241-1CH30-0XB0		ESM0086	1
-F1	Fuse switch		Apator	RBK-00		ECE0504	1
-F1	Fuse link	160A	Apator	WTNH-00 160A		ECE0593	3
-F2	Motor starter		LS	MMS-32S 10A		ECE0874	1
-F2	Auxiliary contact		LS	FX-11		ECE1035	1
-F3	Motor starter		LS	MMS-32S 1,6A		ECE1022	1
-F3	Auxiliary contact		LS	FX-11		ECE1035	1
-F4	Overcurrent circuit-breaker	C6A		S303 C6		ECE0217	1
-F5	Overcurrent circuit-breaker	C2A		S302 C2		ECE0745	1
-F6	Overcurrent circuit-breaker	C2A		S301 C2		ECE0697	1
-K1	Relay	24 V DC	Finder	40.52 D24		ECE0300	1
-K1	Relay socket		Finder	95.75		ECE0320	1
-K2	Relay	24 V DC	Finder	40.52 D24		ECE0300	1
-K2	Relay socket		Finder	95.75		ECE0320	1
-K3	Relay	24 V DC	Finder	40.52 D24		ECE0300	1
-K3	Relay socket		Finder	95.75		ECE0320	1
-K4	Relay	24 V DC	Finder	40.52 D24		ECE0300	1
-K4	Relay socket		Finder	95.75		ECE0320	1
-K5	Relay	24 V DC	Finder	40.52 D24		ECE0300	1
-K5	Relay socket		Finder	95.75		ECE0320	1
-K6	Relay	24 V DC	Finder	40.52 D24		ECE0300	1
-K6	Relay socket		Finder	95.75		ECE0320	1
-KM1	Contactora	230 V AC	LS	MC-9b		ECE0763	1
-KM2	Contactora	230 V AC	LS	MC-9b		ECE0763	1
-S1	Emergency stop button		Giovenzana	PPFN1R4N		ECE0017	1
-S1	Auxiliary contact		Giovenzana	PCW01		ECE0323	2
-T1	Variable frequency drive		Siemens	6SL3220-2YE42-0UF0		ESO0114	1
-T2	Transformer	400V/230V 100VA		400V/230V 100VA		ECE1085	1
-T3	Power supply	24 V DC 1,3A	Siemens	6EP1331-5BA10		ECE0887	1
-W1	Connecting wire			LGY 50 BK		EPW0045	10
-W2	Connecting wire			LGY 1,5 BK		EPW0078	3
-W3	Flexible cable			OW 4x1,5		EPW0007	3
-W4	Connecting wire			LGY 1,5 BK		EPW0078	3
-W5	Flexible cable			OW 4x1,5		EPW0007	3
-W6	Connecting wire			LGY 1 BK		EPW0063	1
-W7	Network cable			Patchcord UTP 5e 0,5m		PRO0491	1
-W8	Network cable			Patchcord UTP 5e 1,5m		PRO0445	1
-W9	Network cable			Patchcord UTP 5e 3m		PRO0490	1
-X1	Rail terminal block		Cabur	GPM95		ECE0379	4
-X2	Rail terminal block		Cabur	CBD2		ECE0376	9
-X3	Rail terminal block		Cabur	CBD6		ECE0229	3
-X3	PE rail terminal block		Cabur	TE6		ECE0230	1
-X3	Rail terminal block		Cabur	CBD2		ECE0376	3
-X3	PE rail terminal block		Cabur	TE2		ECE0275	1
-X4	Rail terminal block		Cabur	CBD2		ECE0376	22
-X4	PE rail terminal block		Cabur	TE2		ECE0275	1

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Plan of terminals

		Terminal block					
		X1					
Sort of connector	Connector type	Target ID	Connection	Terminal	Bridge	Target ID	Connection
							Position
Rail terminal block	GPM95	-F1	1	1		L1	/3.0
Rail terminal block	GPM95	-F1	3	2		L2	/3.0
Rail terminal block	GPM95	-F1	5	3		L3	/3.1
Rail terminal block	GPM95	-T1	PE	4		PE	/3.1
		-PE					



Plan of terminals

		Terminal block							
		X2							
			Connection	Terminal	Bridge		Connection		
Sort of connector	Connector type	Target ID				Target ID		Position	
Rail terminal block	CBD2	-S1	1	1		-F4	2	/4.6	
Rail terminal block	CBD2	-T2	1	2		-S1	2	/4.6	
Rail terminal block	CBD2	-S1	1	3		-F4	4	/4.6	
						-A1	L2		
Rail terminal block	CBD2	-T2	3	4		-S1	2	/4.6	
Rail terminal block	CBD2	-S1	1	5		-T1-X132	9	/4.6	
Rail terminal block	CBD2	-T1-STO_A	24V	6		-S1	2	/4.6	
Rail terminal block	CBD2	-A4	-X80:1	7		-A2	-X12:6	/9.1	
						-A5	L+		
Rail terminal block	CBD2	-A4	-X80:2	8		-K6	A2	/9.2	
						-A5	M		
Rail terminal block	CBD2	-A4-PE		9		-PE		/9.2	

Plan of terminals

Sort of connector		Terminal block							Position	
		Terminal block		X3			Terminal block			
Sort of connector	Connector type	Target ID	Connection	Terminal	Bridge	Target ID	Connection			
Rail terminal block	CBD6	-KM1	T1	1		-M2	U1	/4.1		
Rail terminal block	CBD6	-KM1	T2	2		-M2	V1	/4.1		
Rail terminal block	CBD6	-KM1	T3	3		-M2	W1	/4.2		
PE rail terminal block	TE6	-PE		4		-M2	PE	/4.2		
Rail terminal block	CBD2	-KM2	T1	5		-M3	U1	/4.3		
Rail terminal block	CBD2	-KM2	T2	6		-M3	V1	/4.3		
Rail terminal block	CBD2	-KM2	T3	7		-M3	W1	/4.3		
PE rail terminal block	TE2	-PE		8		-M3	PE	/4.3		

Plan of terminals

		Terminal block X4							
			Connection	Terminal	Bridge		Connection		
Sort of connector	Connector type	Target ID				Target ID		Position	
Rail terminal block	CBD2	-B1		1		-F2	13	/6.3	
Rail terminal block	CBD2	-A2	-X10:9	2		-B1		/6.3	
Rail terminal block	CBD2	-B2		3				/6.4	
Rail terminal block	CBD2	-A2	-X10:10	4		-B2		/6.4	
Rail terminal block	CBD2	-U1		5				/6.4	
Rail terminal block	CBD2	-A2	-X10:11	6		-U1		/6.4	
Rail terminal block	CBD2	-T4	+	7		-A2	-X12:1	/6.7	
Rail terminal block	CBD2	-T4	s	8		-A2	-X11:2	/6.7	
Rail terminal block	CBD2	-T4	-	9		-A2	-X10:6	/6.7	
						-A2	-X11:1		
Rail terminal block	CBD2	-A3	-X19:3	10		-B3		/8.6	
Rail terminal block	CBD2	-A3	-X19:4	11		-B3		/8.7	
Rail terminal block	CBD2	-Y1	x1	12		-K1	14	/10.1	
Rail terminal block	CBD2	-T3	N	13		-Y1	x2	/10.1	
		-KM1	A2						
PE rail terminal block	TE2	-PE		14		-Y1	PE	/10.1	
Rail terminal block	CBD2			15		-K3	14	/10.5	
Rail terminal block	CBD2			16		-K3	12	/10.6	
Rail terminal block	CBD2			17		-K3	11	/10.6	
Rail terminal block	CBD2			18		-K4	14	/10.6	
Rail terminal block	CBD2			19		-K4	12	/10.7	
Rail terminal block	CBD2			20		-K4	11	/10.7	
Rail terminal block	CBD2			21		-K5	14	/10.7	
Rail terminal block	CBD2			22		-K5	12	/10.8	
Rail terminal block	CBD2			23		-K5	11	/10.8	