



BERG Kompressoren GmbH
Compressed Air Technology | Air Separation

Operation and Maintenance Manual - Electrical part

Project name: KOMPBERG BKB22 TWIN

Project number: 586-79-100

Index: EIE1077

Index version: 2

Power supply: 400V/50Hz/3ph

Power supply type: L1, L2, L3, PE

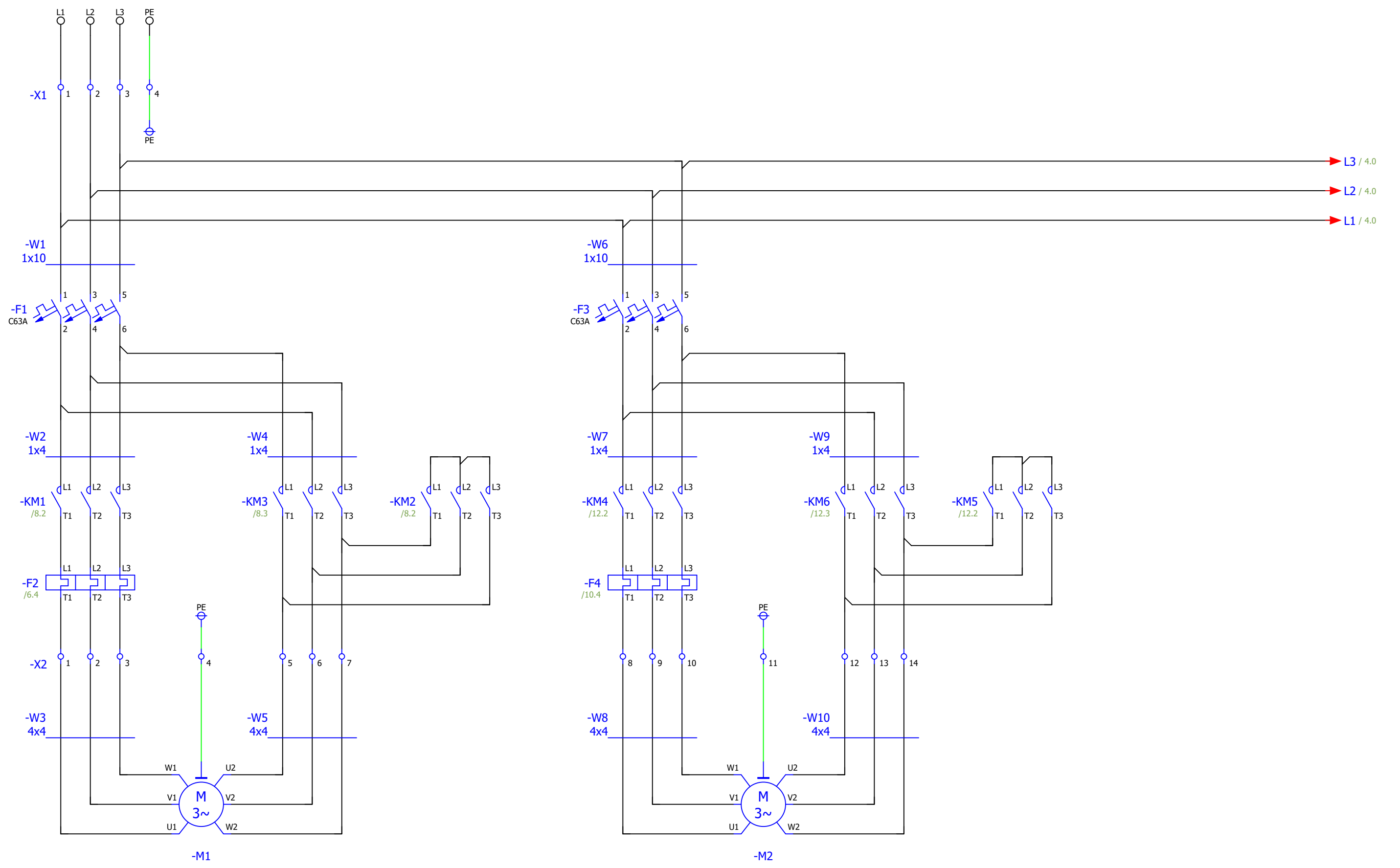
Controller: S7-1200

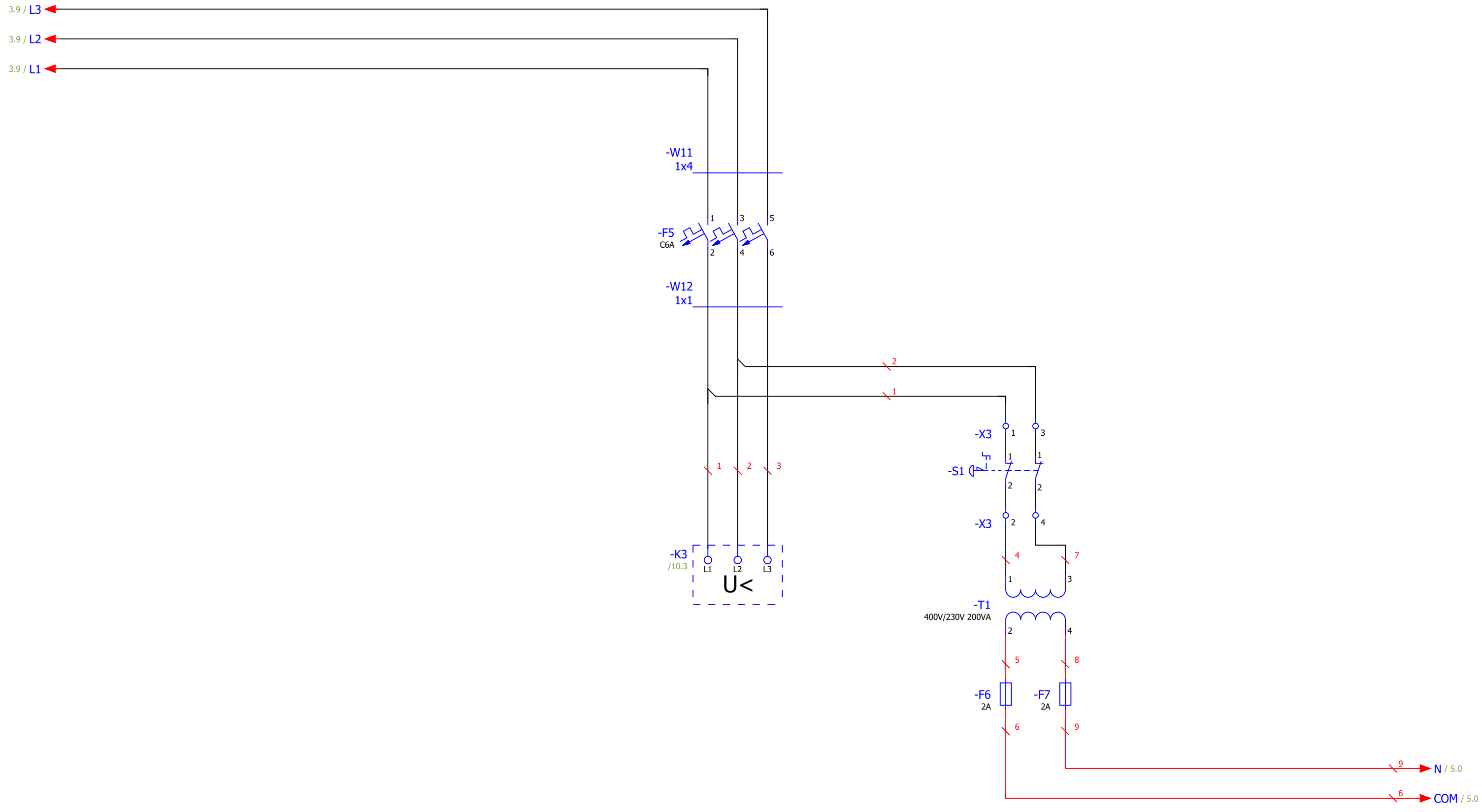
Last change: 25.11.2019

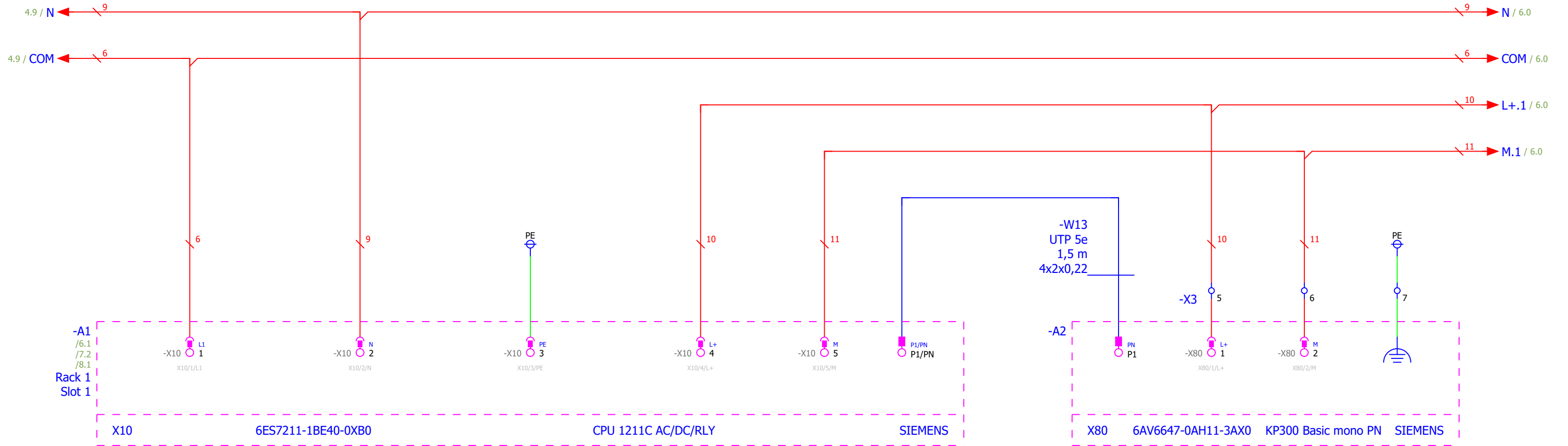
Number of pages: 19

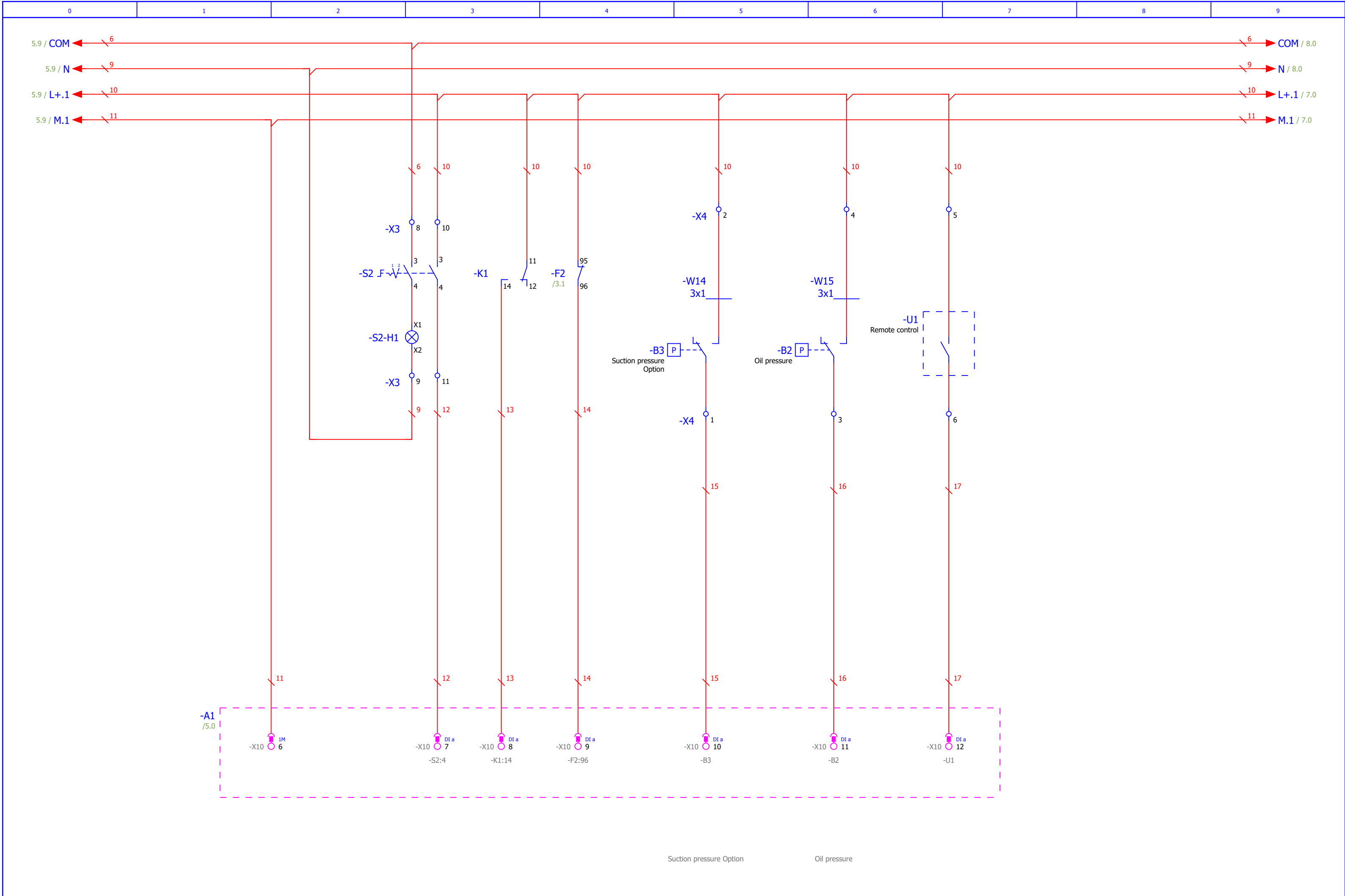
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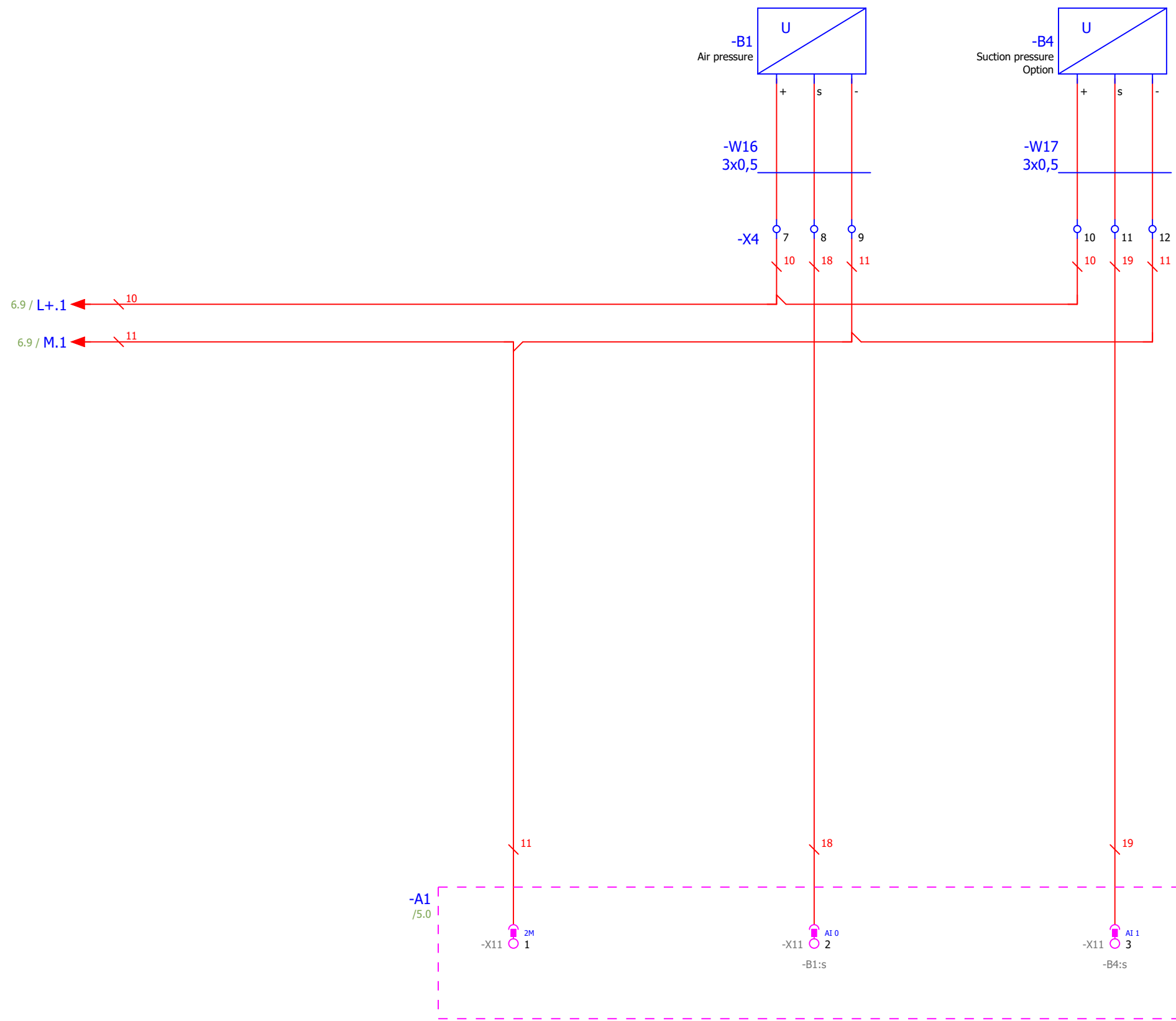


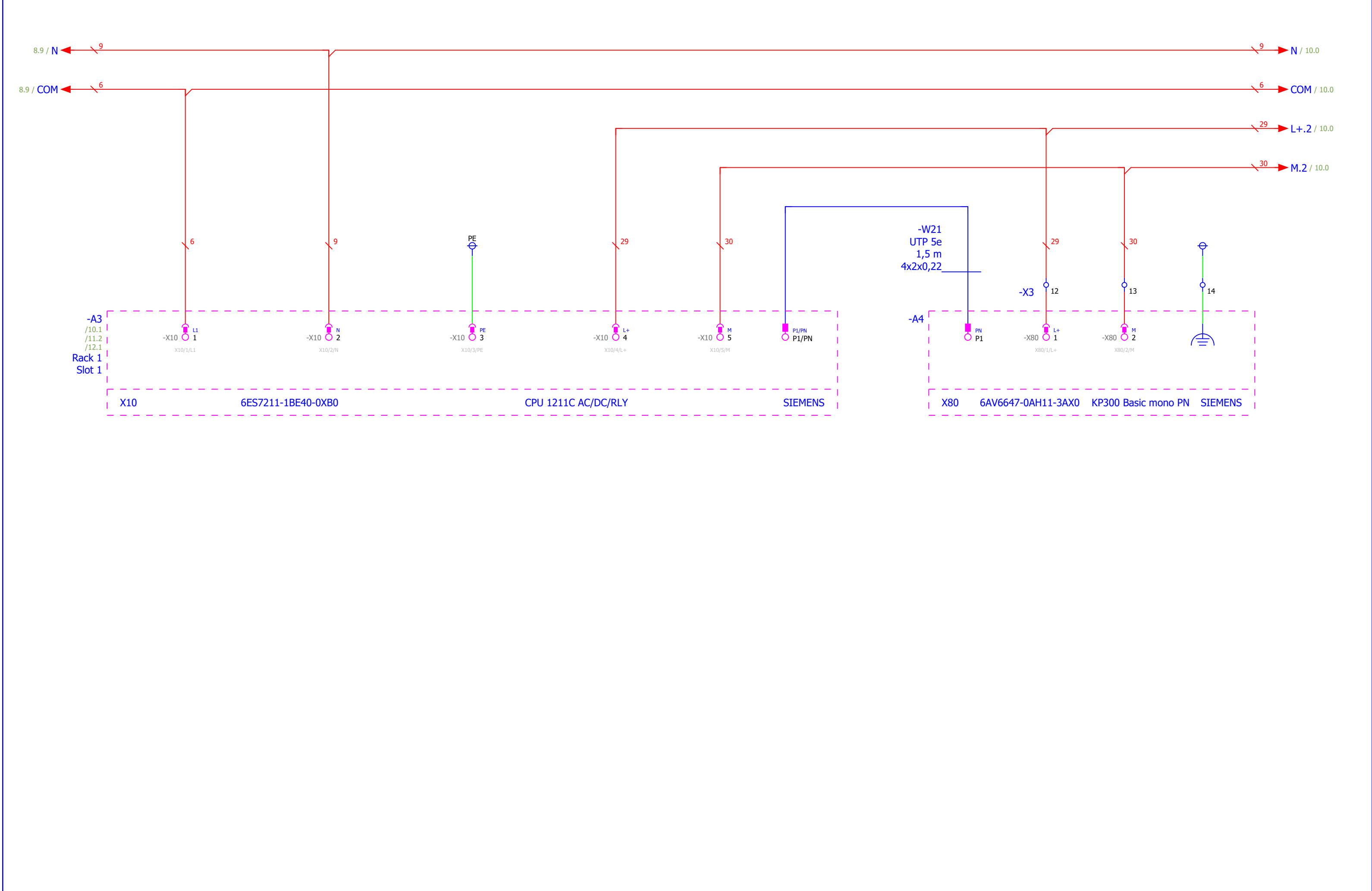


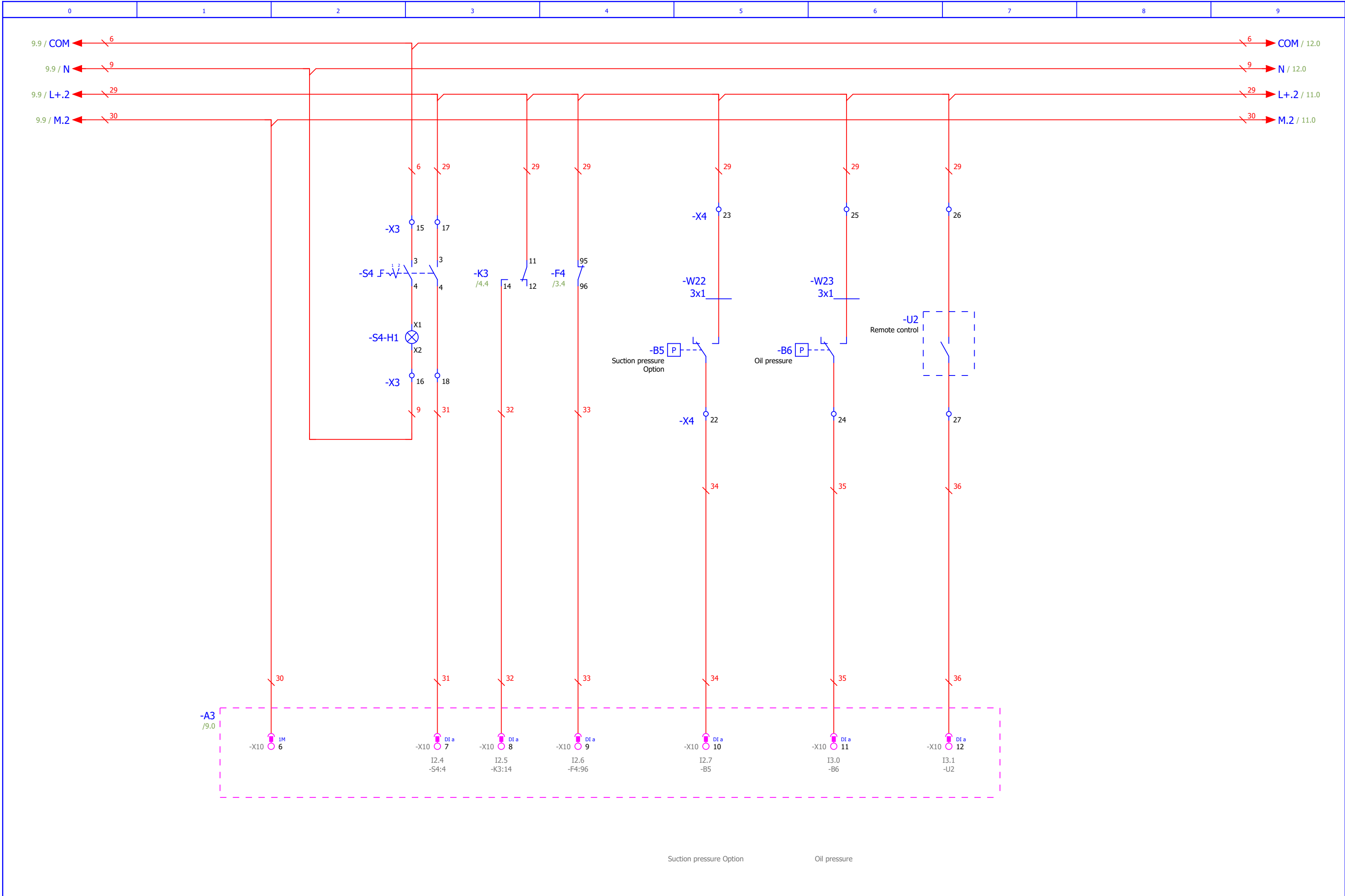


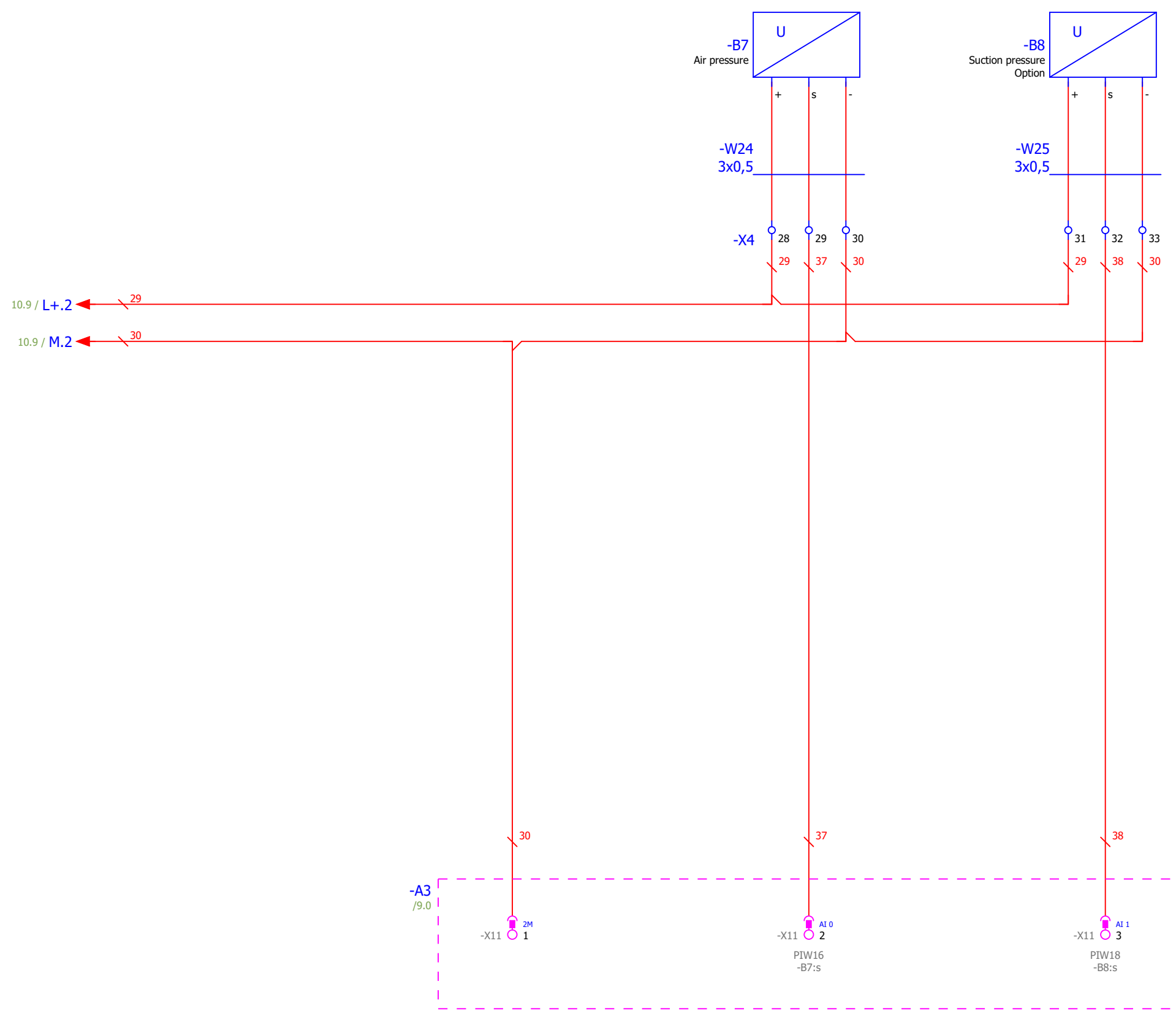












List of articles

Apparatus identifier	Function	Technical data	Manufacturer	Type number	Notes	Index	Quantity
-A1	PLC controller CPU1211C AC/DC/RLY		Siemens	6ES7211-1BE40-0XB0		ESM0054	1
-A2	Operator panel KP300 basic mono PN		Siemens	6AV6647-0AH11-3AX0		ECE0834	1
-A3	PLC controller CPU1211C AC/DC/RLY		Siemens	6ES7211-1BE40-0XB0		ESM0054	1
-A4	Operator panel KP300 basic mono PN		Siemens	6AV6647-0AH11-3AX0		ECE0834	1
-F1	Overcurrent circuit-breaker	C63A		S303 C63		ECE0356	1
-F2	Overload relay		LS	MT-32/3K22-32		ECE0931	1
-F3	Overcurrent circuit-breaker	C63A		S303 C63		ECE0356	1
-F4	Overload relay		LS	MT-32/3K22-32		ECE0931	1
-F5	Overcurrent circuit-breaker	C6A		S303 C6		ECE0217	1
-F6	Fuse holder		Cabur	SFR.4		ECE0506	1
-F6	Glass fuse	2A		5x20 2A		ECE0302	1
-F7	Fuse holder		Cabur	SFR.4		ECE0506	1
-F7	Glass fuse	2A		5x20 2A		ECE0302	1
-K2	Relay	230 V AC	Finder	40.52 A230		ECE0319	1
-K2	Relay socket		Finder	95.75		ECE0320	1
-K3	Phase monitor		Omron	K8AB-PH		ECE0578	1
-K4	Relay	230 V AC	Finder	40.52 A230		ECE0319	1
-K4	Relay socket		Finder	95.75		ECE0320	1
-KM1	Contacteur	230 V AC	LS	MC-32a		ECE0993	1
-KM2	Contacteur	230 V AC	LS	MC-18b		ECE0992	1
-KM3	Contacteur	230 V AC	LS	MC-32a		ECE0993	1
-KM4	Contacteur	230 V AC	LS	MC-32a		ECE0993	1
-KM5	Contacteur	230 V AC	LS	MC-18b		ECE0992	1
-KM6	Contacteur	230 V AC	LS	MC-32a		ECE0993	1
-S1	Emergency stop button		Giovenzana	PPFN1R4N		ECE0017	1
-S1	Auxiliary contact		Giovenzana	PCW01		ECE0323	1
-S2	Two-position switch		Giovenzana	PSMB2DOCL		ECE0182	1
-S2	Auxiliary contact		Giovenzana	PCW10		ECE0332	1
-S4	Two-position switch		Giovenzana	PSMB2DOCL		ECE0182	1
-S4	Auxiliary contact		Giovenzana	PCW10		ECE0332	1
-T1	Transformer	400V/230V 200VA		400V/230V 200VA		ECE0822	1
-W1	Connecting wire			LGY 10 BK		EPW0060	5
-W1	Connecting wire			LGY 10 GNYE		EPW0002	2
-W2	Connecting wire			LGY 4 BK		EPW0072	5
-W2	Connecting wire			LGY 4 GNYE		EPW0086	2
-W3	Flexible cable			OW 4x4		EPW0064	3
-W4	Connecting wire			LGY 4 BK		EPW0072	5
-W5	Flexible cable			OW 4x4		EPW0064	3
-W6	Connecting wire			LGY 10 BK		EPW0060	5
-W6	Connecting wire			LGY 10 GNYE		EPW0002	2
-W7	Connecting wire			LGY 4 BK		EPW0072	5
-W7	Connecting wire			LGY 4 GNYE		EPW0086	2
-W8	Flexible cable			OW 4x4		EPW0064	5
-W9	Connecting wire			LGY 4 BK		EPW0072	5
-W10	Flexible cable			OW 4x4		EPW0064	5
-W11	Connecting wire			LGY 4 BK		EPW0072	10
-W12	Connecting wire			LGY 1 BK		EPW0063	10
-W13	Network cable			Patchcord UTP 5e 1,5m		PRO0445	1
-W14	Flexible cable			OW 3x1		EPW0005	3
-W15	Flexible cable			OW 3x1		EPW0005	3
-W16	Control cable			LIYY 3x0,5		EPW0052	3
-W17	Control cable			LIYY 3x0,5		EPW0052	3
-W18	Flexible cable			OW 3x1		EPW0005	3
-W19	Flexible cable			OW 3x1		EPW0005	3
-W20	Flexible cable			OW 3x1		EPW0005	3
-W21	Network cable			Patchcord UTP 5e 1,5m		PRO0445	1

Modification date: 02.10.2019

Berg Kompressoren GmbH
47807 Krefeld, Deutschland



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Plan of terminals

		Terminal block						
		X4						
Sort of connector	Connector type	Target ID	Connection	Terminal	Bridge	Target ID	Connection	Position
Rail terminal block	CBD2	-A1	-X10:10	1		-B3		/6.5
Rail terminal block	CBD2	-B3		2		-F2	95	/6.5
Rail terminal block	CBD2	-A1	-X10:11	3		-B2		/6.6
Rail terminal block	CBD2	-B2		4				/6.6
Rail terminal block	CBD2	-U1		5				/6.7
Rail terminal block	CBD2	-A1	-X10:12	6		-U1		/6.7
Rail terminal block	CBD2			7		-B1	+	/7.4
Rail terminal block	CBD2	-A1	-X11:2	8		-B1	s	/7.4
Rail terminal block	CBD2	-A1	-X11:1	9		-B1	-	/7.4
Rail terminal block	CBD2			10		-B4	+	/7.5
Rail terminal block	CBD2	-A1	-X11:3	11		-B4	s	/7.5
Rail terminal block	CBD2			12		-B4	-	/7.5
Rail terminal block	CBD2	-Y1	x1	13		-K2	14	/8.5
Rail terminal block	CBD2	-K2	A2	14		-Y1	x2	/8.5
PE rail terminal block	TE2	-PE		15		-Y1	PE	/8.5
Rail terminal block	CBD2	-Y2	x1	16				/8.6
Rail terminal block	CBD2			17		-Y2	x2	/8.6
PE rail terminal block	TE2	-PE		18		-Y2	PE	/8.7
Rail terminal block	CBD2	-Y3	x1	19		-K2	22	/8.8
Rail terminal block	CBD2	-A3	-X10:2	20		-Y3	x2	/8.8
PE rail terminal block	TE2	-PE		21		-Y3	PE	/8.8
Rail terminal block	CBD2	-A3	-X10:10	22		-B5		/10.5
Rail terminal block	CBD2	-B5		23		-F4	95	/10.5
Rail terminal block	CBD2	-A3	-X10:11	24		-B6		/10.6
Rail terminal block	CBD2	-B6		25				/10.6
Rail terminal block	CBD2	-U2		26				/10.7
Rail terminal block	CBD2	-A3	-X10:12	27		-U2		/10.7
Rail terminal block	CBD2			28		-B7	+	/11.4
Rail terminal block	CBD2	-A3	-X11:2	29		-B7	s	/11.4
Rail terminal block	CBD2	-A3	-X11:1	30		-B7	-	/11.4
Rail terminal block	CBD2			31		-B8	+	/11.5
Rail terminal block	CBD2	-A3	-X11:3	32		-B8	s	/11.5
Rail terminal block	CBD2			33		-B8	-	/11.5
Rail terminal block	CBD2	-Y4	x1	34		-K4	14	/12.5
Rail terminal block	CBD2	-K4	A2	35		-Y4	x2	/12.5



