

Computer OKC3, Ident. No.: 257279.00

CMS	530T	740	730T	730S	830S	822	830C	922	933
Typ	587	622 630	588	625	633	623 632	631	772 774	771 773
Circuit diagram 221.00	X	X	X	X	X	X	X	X	X

ELECTRICAL DATA OF CMS MACHINES

Mains voltage Three-phase : 400V
 ±10% 50/60 Hz
 Phase number : 3
 Rated current F0 : 7A
 Main fuse (of customer) : 16 A slow-blow fuse

When the Main Voltage is different to 400V connect the machine over a seperat transformer T2.
 The protective motor switch F0 must be set appropriately.

Mains connection:

Caution! Before connecting check for the mains voltage which is at the operating place of the machine.
 When connecting the machine, pay attention to the clockwise phase sequence.

The connection of external electrical and electronical assemblies to the internal wiring of the machine is generally not allowed.

A guarantee for a faultless function of the machine cannot be ensured in those cases.

When operating the machine via a generator take care that the requirement to the mains voltage is carried out according to EN 60204-1 paragr. 4.3.1.

Supply voltage	Rated Current F0
440 V	6,3 A
420 V	6,3 A
400 V	7,0 A
380 V	8,0 A
360 V	8,0 A
340 V	9,0 A
240 V	10,0 A
220 V	10,0 A
200 V	10,0 A

Seite	Seitenbenennung	Seitenzusatzfeld	Datum	Bearbeiter	X
1	cover page		25. Mär. 2009	KEX	
2	contents		26. Mär. 2009	KEX	x
3	contents		26. Mär. 2009	KEX	
4	code The connector, actuator and sensors		25. Mär. 2009	KEX	
5	caption		25. Mär. 2009	KEX	
6	caption		25. Mär. 2009	KEX	
7	caption		25. Mär. 2009	KEX	
8	caption		25. Mär. 2009	KEX	
9	caption		25. Mär. 2009	KEX	
10	caption		25. Mär. 2009	KEX	
11	caption		25. Mär. 2009	KEX	
12	block diagram transformer		25. Mär. 2009	KEH	
13	block diagram control unit left.		25. Mär. 2009	KEH	
14	block diagram control unit left.		25. Mär. 2009	KEH	
15	block diagram control unit right servo drive and racking		25. Mär. 2009	KEH	
16	block diagram control unit right main take down		25. Mär. 2009	KEH	
17	block diagram control unit right auxiliary take down		25. Mär. 2009	KEX	
18	block diagram control unit right comb		25. Mär. 2009	KEX	
19	block diagram control unit right		25. Mär. 2009	KEH	
20	connector definition wiring system left		25. Mär. 2009	KEH	
21	connector definition wiring system right		25. Mär. 2009	KEH	
22	connector definition connectors external		25. Mär. 2009	KEH	
23	supply		25. Mär. 2009	KEH	
24	transformer		25. Mär. 2009	KEH	
25	power supply		25. Mär. 2009	KEH	
26	power allocation wiring system left		25. Mär. 2009	KEH	
27	power allocation wiring system right		25. Mär. 2009	KEH	
28	CAN-BUS		25. Mär. 2009	KEH	
29	lighting fluff elemination central lubrication		25. Mär. 2009	KEH	
30	servo drive and racking		25. Mär. 2009	KEH	

Seite	Seitenbenennung	Seitenzusatzfeld	Datum	Bearbeiter	X
31	servo additional neddle beds		25. Mär. 2009	KEH	
32	inputs servo HA+V		25. Mär. 2009	KEH	
33	inputs servos additional neddle beds		25. Mär. 2009	KEH	
34	outputs servo HA+V		25. Mär. 2009	KEH	
35	posifeeds		25. Mär. 2009	KEH	
36	main take down		25. Mär. 2009	KEH	
37	auxiliary take down		25. Mär. 2009	KEX	
38	comb		25. Mär. 2009	KEX	
39	signals Take down XR62		25. Mär. 2009	KEH	
40	signals comb XR63 5XX / 7XX / 8XX		25. Mär. 2009	KEH	
41	signal auxiliary take down open XR64		25. Mär. 2009	KEH	
42	signal Take down open XR65		25. Mär. 2009	KEH	
43	signals auxiliary take down XR66 5XX		25. Mär. 2009	KEH	
44	signals auxiliary take down XR66 7XX / 8XX		25. Mär. 2009	KEX	
45	signals comb hook XR67 5XX / 7XX / 8XX		25. Mär. 2009	KEH	
46	engaging rod		25. Mär. 2009	KEH	
47	outputs relay card		25. Mär. 2009	KEH	
48	inputs relay card 1		25. Mär. 2009	KEH	
49	inputs relay card 2		25. Mär. 2009	KEH	
50	inputs relay card 3		25. Mär. 2009	KEH	
51	outputs batterie card		26. Mär. 2009	KEH	
52	inputs batterie card		25. Mär. 2009	KEH	
53	knot dedector		25. Mär. 2009	KEH	
54	inputs batterie card chrash sensor		25. Mär. 2009	KEH	
55	terminals/Cutting left		25. Mär. 2009	KEH	
56	terminals/Cutting right		25. Mär. 2009	KEH	
57	yarn carrier unit CMS730S/830S		25. Mär. 2009	KEH	

Identification of the plug connectors, sensors and actuators

A__	Assemblies
B	Switches
E__	Lighting; Ventilator
F__	Fuses
J__	The card plug connector of the wiring system __ stands for the last three numbers of the respective Ident. number (example: Id.300953 → J953)
K__	Relays
M__	Motors
P__	Signal equipment
Q__	Brakes, magnets
T__	Transformers
W__	cable
V__	Interference suppressors
XL__	Plug connectors on the wiring systems in the left control unit (cable outlets)
XR__	Plug connectors on the wiring systems in the right control unit (cable outlets)
XT__	Plug connectors on the transformer
XZ__	Plug connectors on the consumer or switch gear

Circuit diagram 221

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Identifier EN 61346-2	Old Identifier	Designation	Value/ function	Ident No. CMS 502	Ident No. CMS 520, 530, 520C	Ident No. CMS 530T	Ident No. CMS 740	Ident No. CMS 730T	Ident No. CMS 730S	Ident No. CMS 830S
A1	A1	Control unit on the left co.		255957	255952	255957	255963	255963	254866 (822) 255954 (830C)	254860 (933) 254864 (922)
A2	A2	Control unit on the left co.		241 310	238 738	241 311	238 738	238 738	238 738	238 738
A6	A6	Battery plug-in unit		300 924	300 924	300 924	300 924	300 924	300 924	300 924
A7	A7	Card Engaging		240 167	240 167	240 167	240 167	240 167	240 167	240 167
A8	A8	Magnet switch shrouding covers outside		219 983	219 983	219 983	219 983	219 983	219 983	219 983
A10	A10	Yarn control device		237 124	237 124	237 124	237 124	237 124	237 124	237 124
A11	A11	Impulse giver main take-down / comb		300 744	300 744	300 744	300 744	300 744	300 744	300 487
A12	A12	Impulse giver auxiliary take-down		217 462	in M5	in M5	in M5	in M5	in M5	217 462
A14	A14	Magnet switch shrouding covers in the middle		220 159	220 159	220 159	220 159	220 159	220 159	220 159
A15	A15	Racking – limit switch jack		229 396	229 396	229 396	229 396	229 396	229 396	229 396
A16	A16	Racking – Limit switch jack add. bed front / right		232 300	----	232 300	----	----	----	----
A17	A17	Racking – Limit switch jack add. bed rear /left		232 300	----	232 300	----	----	----	----
A18	A18	Clamping/cutting on the left		214 257	----	214 257	214 257	214 257	----	----
A19	A19	Clamping/cutting on the right		214 257	----	214 257	214 257	214 257	----	----
A20	A20	Impulse giver pressure motor auxiliary take-down	in group. M10	----	x	x	x	x	x	x
A21	A21	Main switch		250363	250363	250363	250363	250363	250363	250363
A22	A22	Central oil lubricating pump	Partly optional	235 068	235 068	235 068	235 068	235 068	235 068	235 068
A23re	A23re	Length measuring device	optional	257282	257282	257282	257282	257282	257282	257282
A23li	A23li	Length measuring device	optional	257283	257283	257283	257283	257283	257283	257283
A24	A24	Shock stop motion (Piezo)		220 011	220 011	220 011	255315	255315	220 011	220 011
A25	A25	Shock stop motion (Piezo) additional bed		230520	----	230520	----	----	----	----
A26	A26	Slack tensioner left.		241345	241345	241345	241345	241345	241345	241345
A27	A27	Slack tensioner lrigt.		241346	241346	241346	241346	241346	241346	241346
B S1	S 1	Limit switch drive on the left		223 333	223 333	223 333	223 333	223 333	223 333	223 333
B S2	S 2	Limit switch drive ont the right		223 333	223 333	223 333	223 333	223 333	223 333	223 333
B 4.1	S 4.1	Limit switch racking	in group A15	x	x	x	x	x	x	x
B 4.2	S 4.2	Limit switch racking front / right additional bed.	in group A16b	x	----	x	----	----	----	----
B 4.3	S 4.3	Limit switch racking rear / left additional bed	in group A17	x	----	x	----	----	----	----

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B 5.1	S 5.1	Switch Shrouding cover	in group A8	x	x	x	x	x	x	x
B 5.2	S 5.2	Switch Shrouding cover	in group A8	x	x	x	x	x	x	x
B 6.1	S 6.1	Switch Shrouding cover	in group A8	x	x	x	x	x	x	x
B 6.2	S 6.2	Switch Shrouding cover	in group A8	x	x	x	x	x	x	x
B10	S 10	Switch Protective hood on the right		223 350	223 350	223 350	223 350	223 350	223 350	223 350
B12	S 12	Switch Protective hood on the left		223 350	223 350	223 350	223 350	223 350	223 350	223 350
B_S13	S 13	Switch fabric sensor 1		----	----	----	x	x	----	----
B_S14	S 14	Switch take-down closed		026 259	----	----	----	----	-----	----
B15li	S 15 li	Slack tensioner on the left	in group A26	x	x	x	x	x	x	x
B15re	S 15 re	Slack tensioner on the right	in group A27	x	x	x	x	x	x	x
B_S16	S 16	Microswitch Winding plate		026 259	026 259	026 259	026 259	026 259	026 259	026 259
B_S16a	S 16a	Microswitch front winding plate		222 063	222 063	222 063	222 063	222 063	222 063	222 063
B_S17	S 17	Switch fabric take-down on the left		----	----	----	----	----	----	008 829
B_S18	S 18	Switch fabric take-down on the right		----	----	----	----	----	----	008 829
B20	S 20	Comb reference at the top		231516	231516	231516	231516	231516	231516	----
B21	S 21	Comb reference bottom		231520	231520	231520	231520	231520	231520	----
B22	S 22	Comb Light barrier		243 355	243 355	243 355	243 355	243 355	243 355	----
B_S23	S 23	Switch Cover plate Comb		026 259	026 259	026 259	026 259	026 259	026 259	----
B_S24	S 24	Switch comb hook		026 259	026 259	026 259	026 259	026 259	026 259	----
B 27	S 27	Float switch central lubrication	in group A22	x	x	x	x	x	x	x
B 28	S 28	Oil pressure switch central lubrication	in group A22	x	x	x	x	x	x	x
B_S30	S 30	Switch auxiliary take-down open		026 259	026 259	026 259	026 259	026 259	026 259	----
B31	S 31	Thermoswitch fluff absorption turbine	in M 9	x	x	x	x	x	x	x
B32	S 32	Switch winding plate feed wheel		008 529	008 529	008 529	008 529	008 529	008 529	008 529
B33.1	S33.1	Magnet switch shrouding covers in the middle	in group A14	x	x	x	x	x	x	x
B33.2	S33.2	Magnet switch shrouding covers in the middle	in group A14	x	x	x	x	x	x	x
B34.1	S34.1	Magnet switch shrouding covers in the middle	in group A14	x	x	x	x	x	x	x
B34.2	S34.2	Magnet switch shrouding covers in the middle	in group A14	x	x	x	x	x	x	x
B35li	S35 li	Sensor clamp./cutting tuck left	in group A18	x	----	x	x	x	----	----
B35re	S35 re	Sensor clamp./cutting tuck right	in group A19	x	----	x	x	x	----	----
B36li	S36 li	Sensor clamp./cutting selection left	in group A18	x	----	x	x	x	----	----
B36re	S36 re	Sensor clamp./cutting selection right	in group A19	x	----	x	x	x	----	----
B37li	S37 li	Sensor clamp./cutting drive left	in group A18	x	----	x	x	x	----	----

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B37re	S37 re	Sensor clamp./cutting drive right	in group A19	x	----	x	x	x	----	----
B38	S38	Reference sensor racking rear	in group A15	x	x	x	x	x	x	x
B39	S39	Reference sensor racking additional bed front / right	in group A16b	x	----	x	----	----	----	----
B40	S40	Reference sensor racking additional bed rear / left	in group A17	x	----	x	----	----	----	----
B41li	S41li	Thermoswitch feed wheel left	in M 7	x	x	x	x	x	x	x
B41re	S41re	Thermoswitch feed wheel right	in M 7	x	x	x	x	x	x	x
B45	S45	Switch take-down open		----	210 510	210 510	210 510	210 510	210 510	----
B S46	S46	Switch take-down closed		----	210 510	210 510	210 510	210 510	210 510	----
B48	S48	Release signalling switch of main switch	in group A21	236 065	236 065	236 065	236 065	236 065	236 065	236 065
B S49	S49	Cover plate Comb depressed		026 259	026 259	026 259	026 259	026 259	026 259	----
E1	E1	Machine lighting at the top		205 546	205 546	212 580	205 546	205 546	205 546	212 580
E2	E2	Machine lighting at the bottom		----	----	----	----	----	----	212 580
E3	LV 1	Ventilator drive motor		213 722	213 722	213 722	213 722	213 722	213 722	213 722
E4	LV 2	Ventilator control unit on the right (servo)	in group A2	229 059	229 059	229 059	229 059	229 059	229 059	229 059
E5	LV 4	Ventilator power supply	in group A1	239 305	239 305	239 305	239 305	239 305	239 305	239 305
F0	Q1	Protective motor switch	in group A21	235 115	235 115	235 115	235 115	235 115	235 115	235 115
F 1	F 1	Fabric take-down (WAZ)	3,15AT / 440V	025 261	025 261	025 261	025 261	025 261	025 261	025 261
F 2	F 2	Fabric take-down (WAZ)	3,15AT / 440V	025 261	025 261	025 261	025 261	025 261	025 261	025 261
F 3	F 3	Fabric take-down (WAZ)	3,15AT / 440V	025 261	025 261	025 261	025 261	025 261	025 261	025 261
F 4	F 4	Feed wheel	6,3AT / 440V	026809	026809	026809	026809	026809	026809	026809
F 5	F 5	Feed wheel	6,3AT / 440V	026809	026809	026809	026809	026809	026809	026809
F 6	F 6	Feed wheel	6,3AT / 440V	026809	026809	026809	026809	026809	026809	026809
F 8	F 8	Servo	6,3AT / 440V 8AT / 440V	241866	241866	241866	241866	241866	241866	241866
F 9	F 9	Servo	6,3AT / 440V 8AT / 440V	241866	241866	241866	241866	241866	241866	241866
F10	F10	Servo	6,3AT / 440V 8AT / 440V	241866	241866	241866	241866	241866	241866	241866
F11	F11	Power supply	6,3AT / 440V	026 809	---	026 809	---	---	026 809 (830C)	---

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			10AT / 440V	---	025 258	---	025 258	025 258	025 258 (822)	025 258
F11a	F11a	Power supply	10AT / 440V	----	----	----	025 258	025 258	----	----
F12	F12	Power supply	6,3AT / 440V	026 809	---	026 809	---	---	026 809 (830C)	---
			10AT / 440V	---	025 258	---	025 258	025 258	025 258 (822)	025 258
F12a	F12a	Power supply	10AT / 440V	----	----	----	025 258	025 258	----	----
F13	F13	Power supply	6,3AT / 440V	026 809	---	026 809	---	---	026 809 (830C)	---
			10AT / 440V	---	025 258	---	025 258	025 258	025 258 (822)	025 258
F13a	F13a	Power supply	10AT / 440V	----	----	----	025 258	025 258	----	----
F16	F16	Lighting	3,15AT / 440V	025 261	025 261	025 261	025 261	025 261	025 261	025 261
F17	F17	Lighting	3,15AT / 440V	025 261	025 261	025 261	025 261	025 261	025 261	025 261
F20	F20	Fluff absorption (FLENT)	2,5AT / 440V	217 465	217 465	217 465	217 465	217 465	217 465	217 465
F21	F21	Fluff absorption (FLENT)	2,5AT / 440V	217 465	217 465	217 465	217 465	217 465	217 465	217 465
F22	F22	Fluff absorption (FLENT)	2,5AT / 440V	217 465	217 465	217 465	217 465	217 465	217 465	217 465
F_Si1	Si 1	28V protected (switch)	1,0 AF	008 748	008 748	008 748	008 748	008 748	008 748	008 748
F_Si2	Si 2	28V Length measuring device	1,0 AF	008 748	008 748	008 748	008 748	008 748	008 748	008 748
F_Si3	Si 3	Fuse of yarn control unit	1,0 AF	008 748	008 748	008 748	008 748	008 748	008 748	008 748
F_Si4	Si 4	Battery charge	1,0 AF	008 748	008 748	008 748	008 748	008 748	008 748	008 748
F_Si5	Si 5	Ballast servo (on relay card J953/J007)	1,6 AT / 440V	236 229	236 229	236 229	236 229	236 229	236 229	236 229
F_Si6	Si 6	Fuse of battery plug-in unit	6,3AT 12,5 ATT	232367	232367	232367	232367	232367	232367	232367
P1	H1	Warning light complete		240395	240395	240395	240395	240395	240395	240395
P2	H2	Warning light green	in group P1	x	x	x	x	x	x	x
P2.1	H2.1	Warning light yellow	in group P1	x	x	x	x	x	x	x
P3	H3	Signal transmitter (horn)	in group P1	x	x	x	x	x	x	x
K15A	K15A	Relay fluff absorption	in group T1	221 275	221 275	221 275	221 275	221 275	221 275	221 275
K16A	K16A	Relay fluff absorption	in group A22	x	x	x	x	x	x	x

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K99A	K99A	Relay battery plug-in unit	in group A6	in group A6	in group A6	in group A6	in group A6	in group A6	in group A6	in group A6
K3M	K3M	Relay feed wheel on the right	in group J953	in group J953	in group J953	in group J953	in group J953	in group J953	in group J953	in group J953
K4M	K4M	Relay feed wheel on the left	in group J953	in group J953	in group J953	in group J953	in group J953	in group J953	in group J953	in group J953
K7M	K7M	Relay lighting	in group T1	221 275	221 275	221 275	221 275	221 275	221 275	221 275
M 1	M 1	Drive motor		240 740	240 740	240 740	240 740	240 740	240 740	242 377
M 2	M 2	Rear racking motor		241 454	241 454	241 454	241 454	241 454	241 454	241 454
M 3	M 3	Take-down motor		214 279	214 279	214 279	214 279	214 279	214 279	244 450
M 4	M 4	Comb motor		214 279	214 279	214 279	214 279	214 279	214 279	----
M 5	M 5	Auxiliary take-down motor		213 871	234 805	234 805	234 805	234 805	234 805	234 805
M 6	M 6	Comb hook motor		213 872	213 872	213 872	213 872	213 872	213 872	----
M 7	M 7	Friction feed wheels		219 800	219 800	219 800	219 800	219 800	219 800	219 800
M 9	M 9	Suction turbine fluff absorption (FLENT)		221 172	221 172	221 172	221 172	221 172	221 172	221 172
M 10	M 10	Pressure roller motor		----	234 805	234 805	234 805	234 805	234 805	234 805
M 11	M 11	Racking motor front / right additional bed		242 731	----	242 731	----	----	----	----
M 12	M 12	Racking motor rear / left additional bed		242 731	----	242 731	----	----	----	----
M 13	M 13	Open/close take-down motor		----	232 456	232 456	232 456	232 456	232 456	----
M 14	M 14	Central lubrication of motor pump	in group A22	x	x	x	x	x	x	x
MP 1	MP 1	Clamp./Cutting motor tuck left	in group A18	x	----	x	x	x	----	----
MP 2	MP 2	Clamp./Cutting motor tuck right	in group A19	x	----	x	x	x	----	----
MP 3	MP 3	Clamp./Cutting motor drive left	in group A18	x	----	x	x	x	----	----
MP 5	MP 5	Clamp./Cutting motor selection right	in group A19	x	----	x	x	x	----	----
MP 6	MP 6	Clamp./Cutting motor selection left	in group A18	x	----	x	x	x	----	----
MP 8	MP 8	Clamp./Cutting motor drive right	in group A19	x	----	x	x	x	----	----
Q1	Y1	Magnet machine execute	in group A21	235 116	235 116	235 116	235 116	235 116	235 116	235 116
Q2	Y4	Magnet Engaging rod		026 233	026 233	026 233	026 233	026 233	026 233	026 233
Q5	Y5	Brake motor take-down	in Motor M3	x	x	x	x	x	x	x
Q6	Y6	Brake motor comb	in Motor M4	x	x	x	x	x	x	----
Q7	Y7	Magnet take-down catch off	in Motor M3	----	----	----	----	----	----	x

Circuit diagram 221

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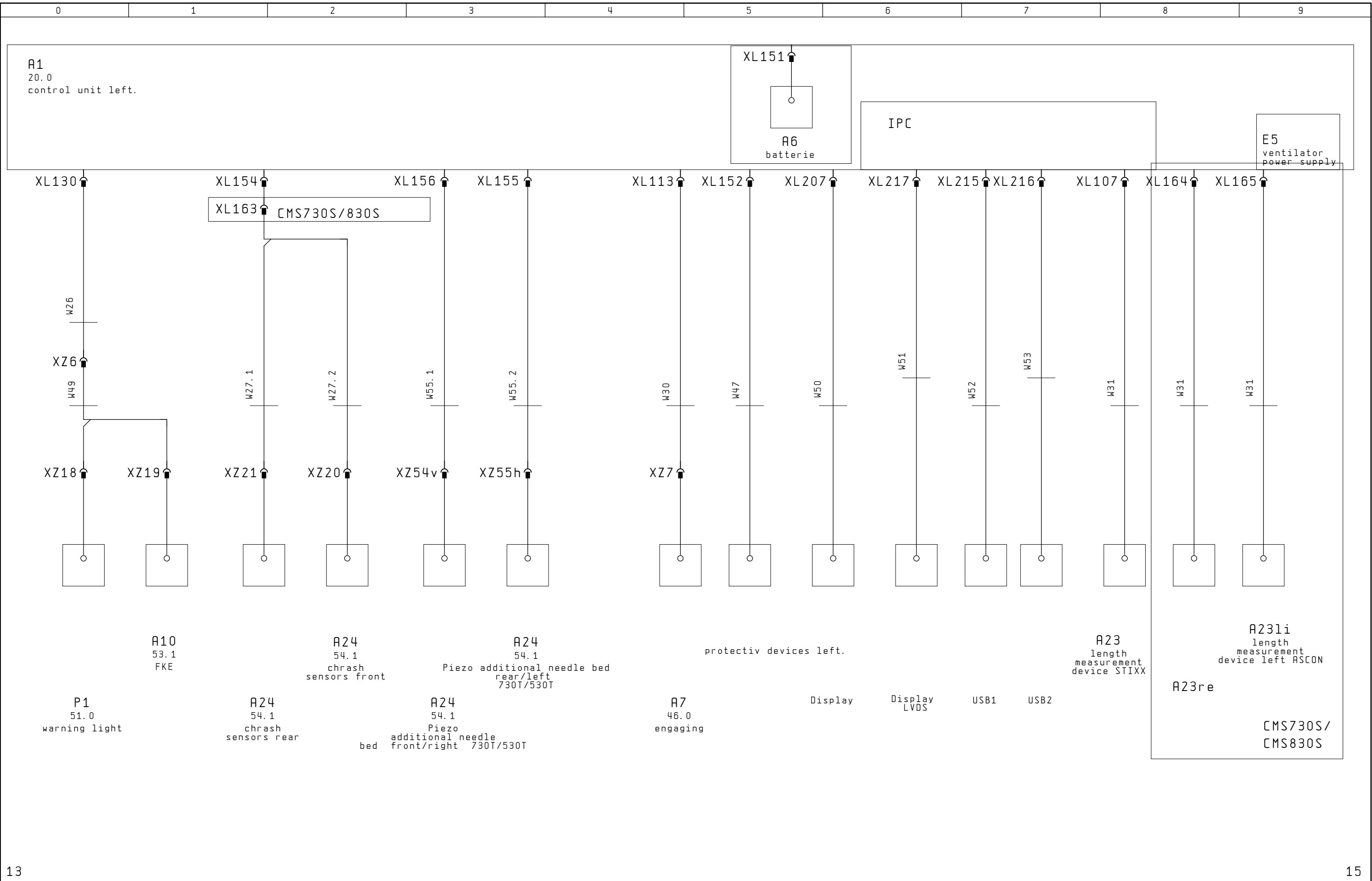
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[illegible]

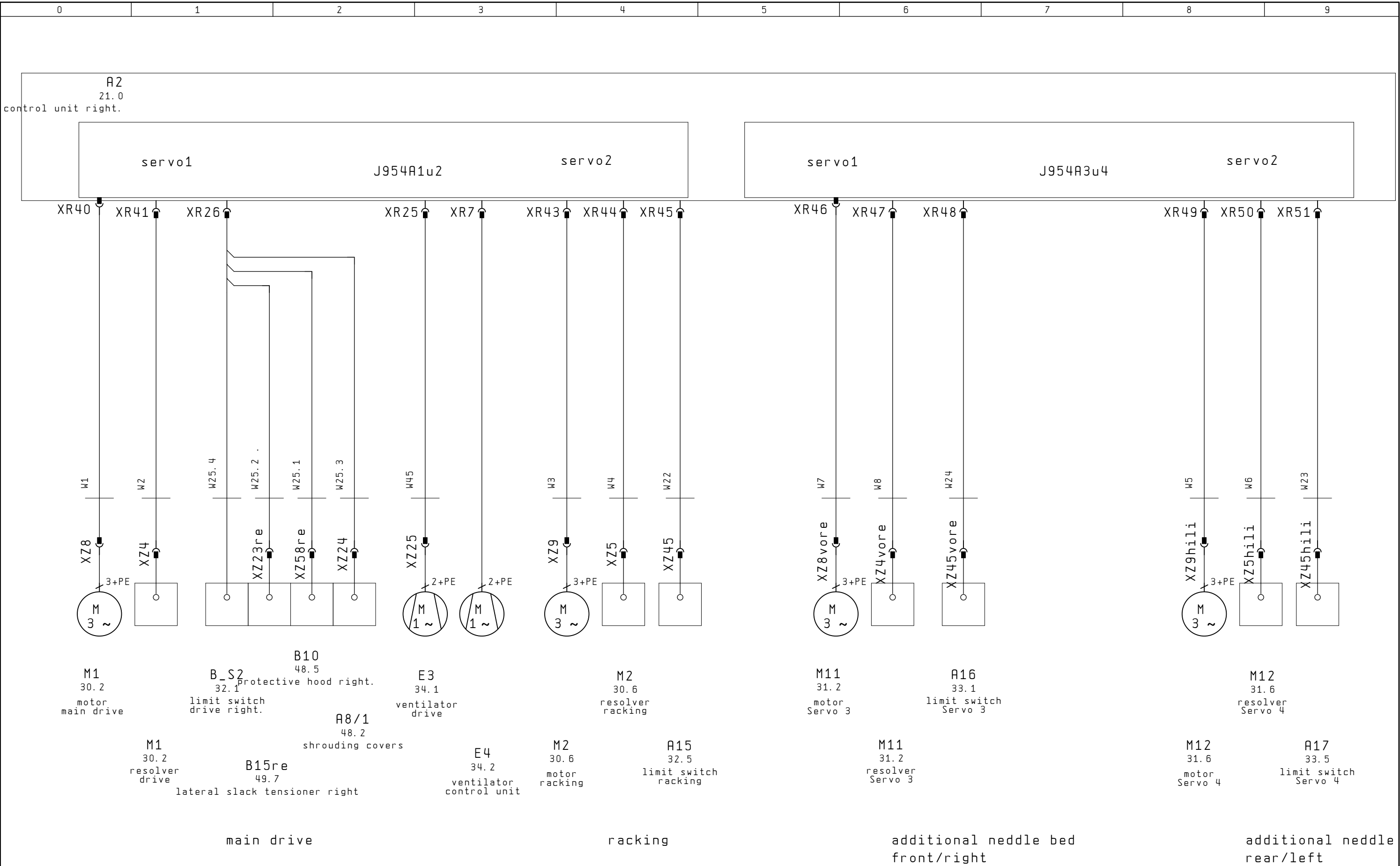
[illegible]



Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.			57 Bl.
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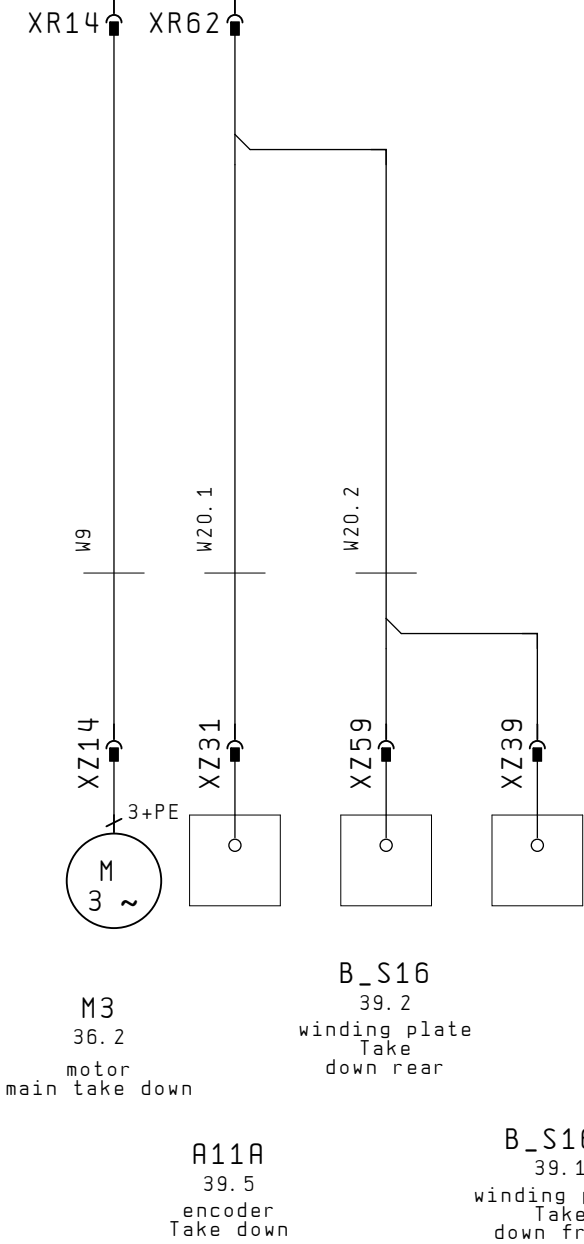
			Datum		circuit diagram 221		H. Stoll GmbH & Co. KG	block diagram control unit left.	Id. Nr. 257 279		=	
			Bearb. KEH						+			
			Gepr. 27. Mär. 2009									
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.		Ä. St. 00		B1. 14	
											57 B1.	



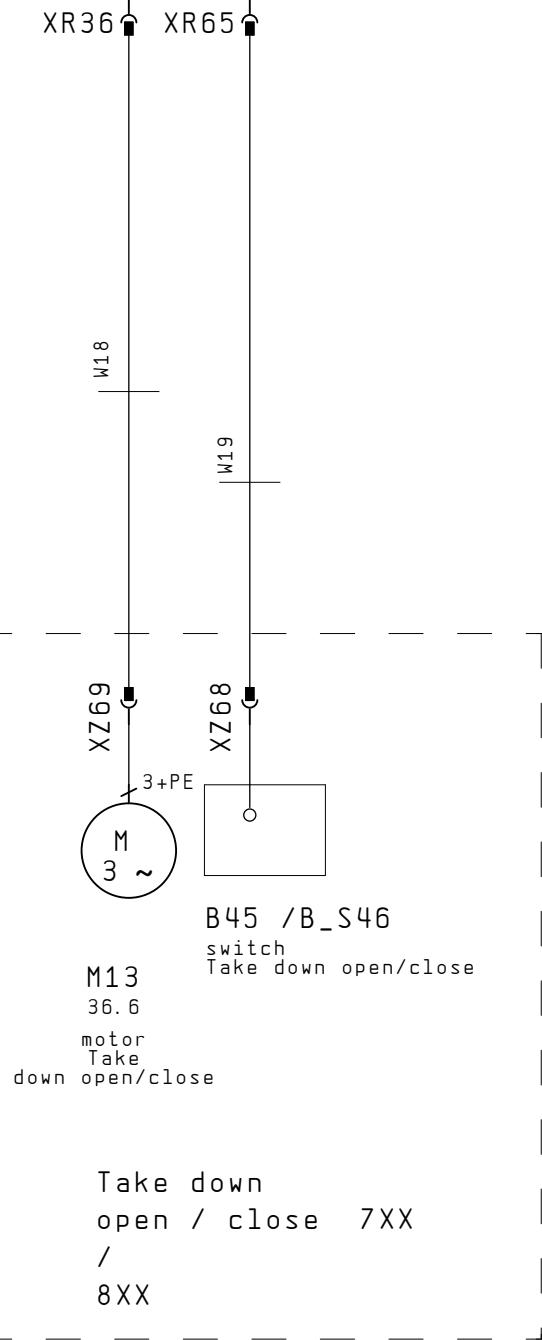
			Datum		circuit diagram 221		H. Stoll GmbH & Co. KG	block diagram control unit right servo drive and racking	Id. Nr. 257 279		=		
			Bearb.	KEH							+		
			Gepr.	27. Mär. 2009								B1.	15
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.	H. St. 00					
											57 B1.		

A2
21.0
control unit right.

C-WAZ J929 + J936 / J948

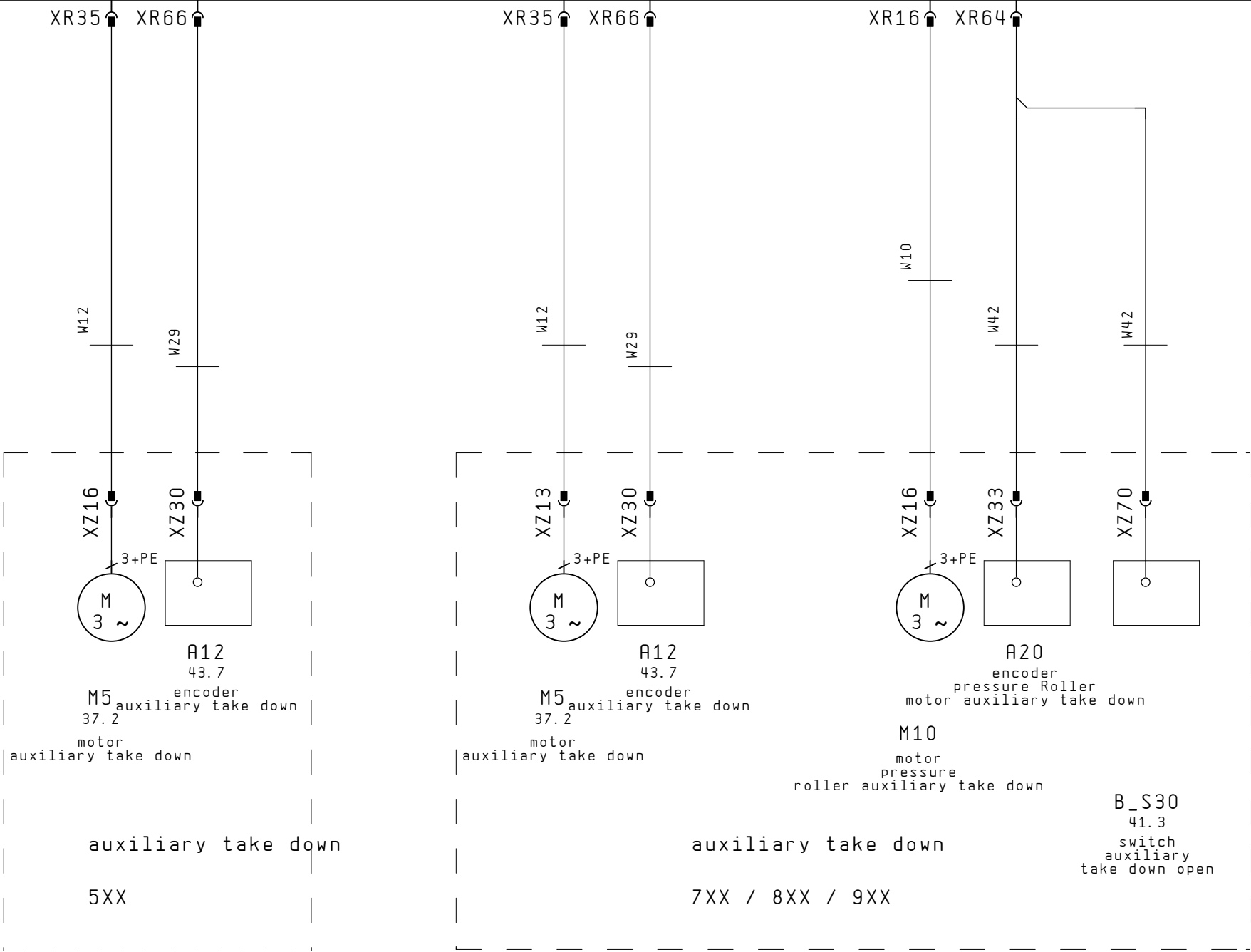


Take down



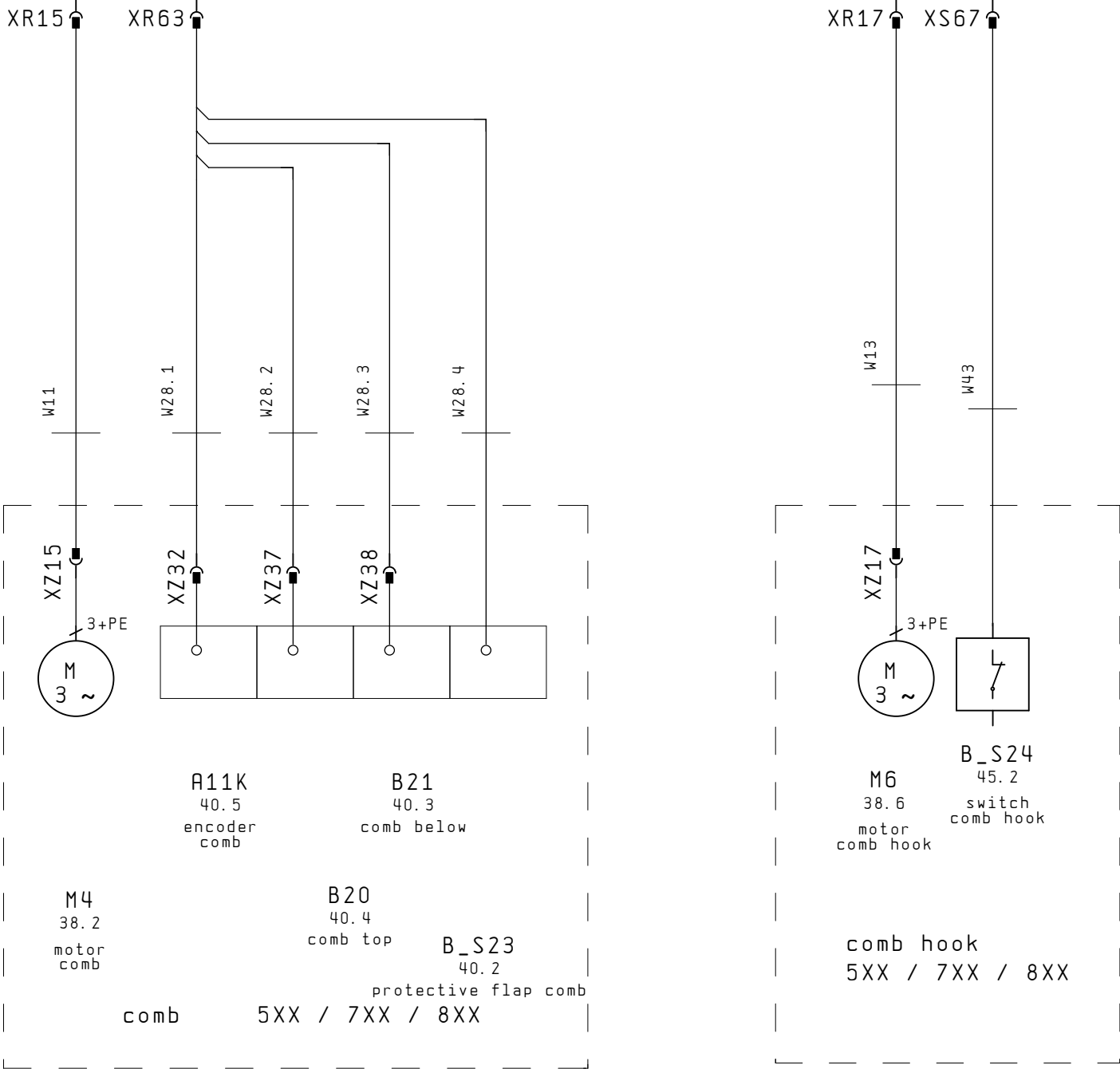
A2
21.0
control unit right.

C-WAZ J929 + J936 / J948



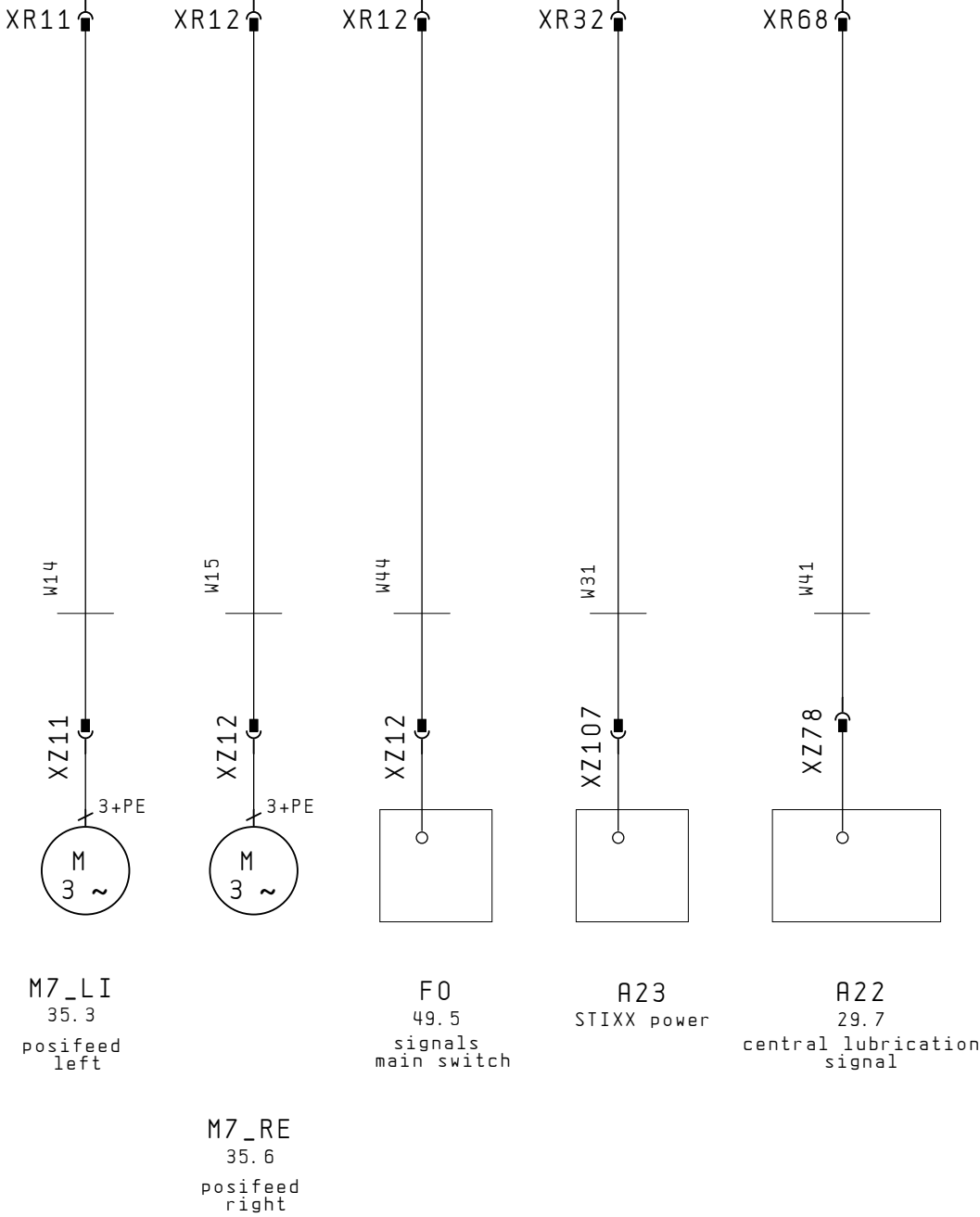
A2
21.0
control unit right.

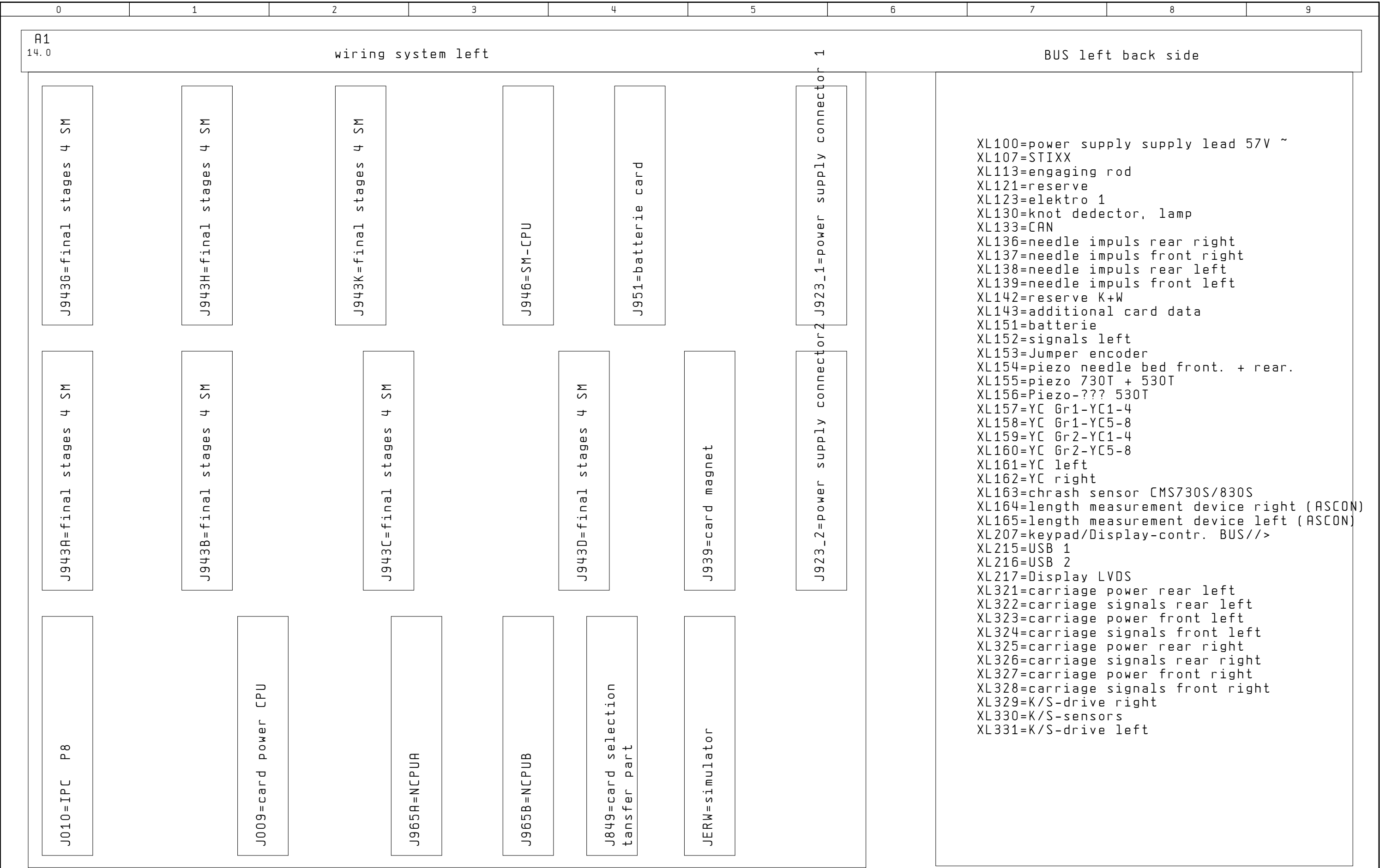
C-WAZ J929 + J936 / J948



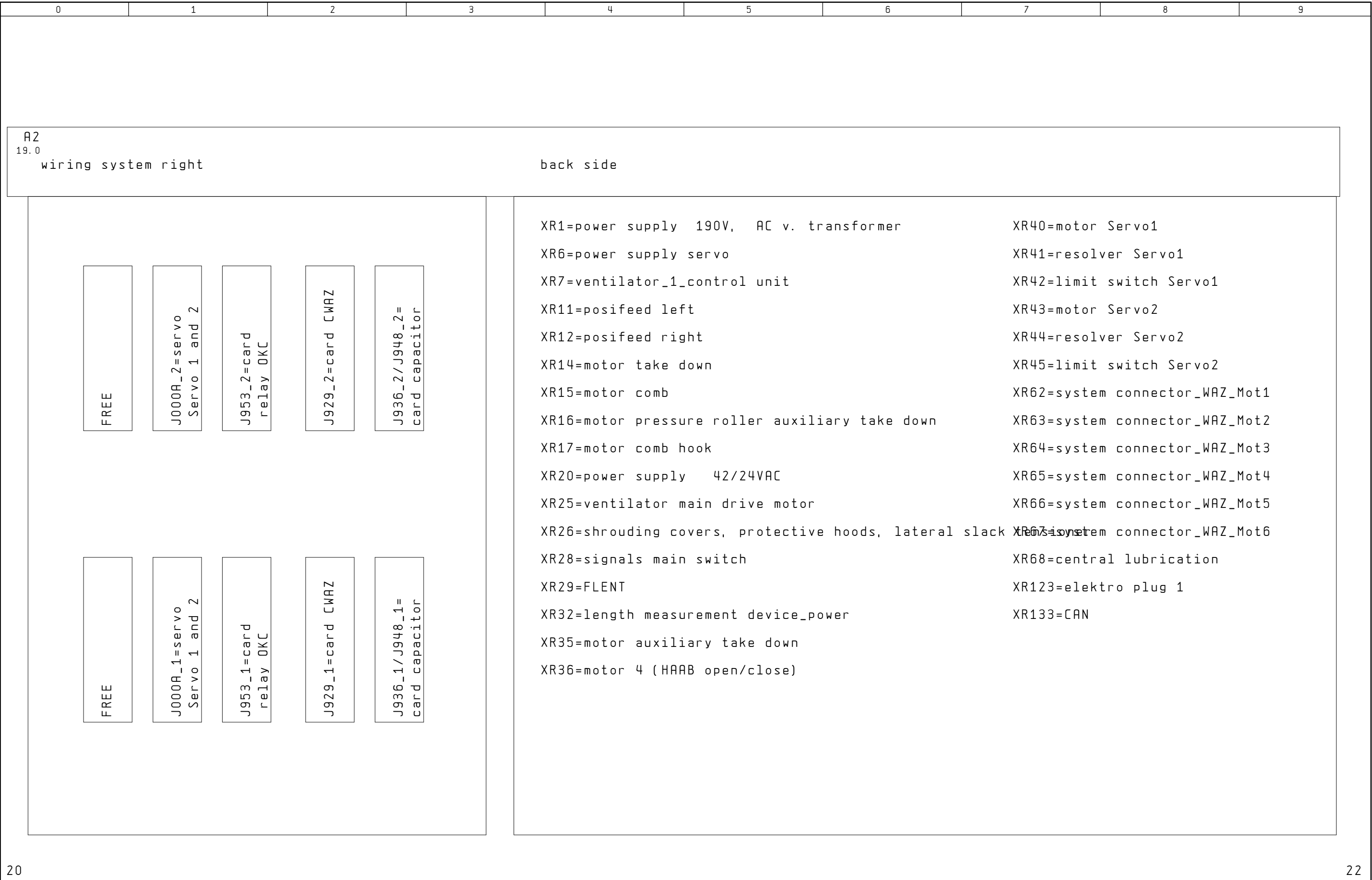
A2
21.0
control unit right.

relay card J953



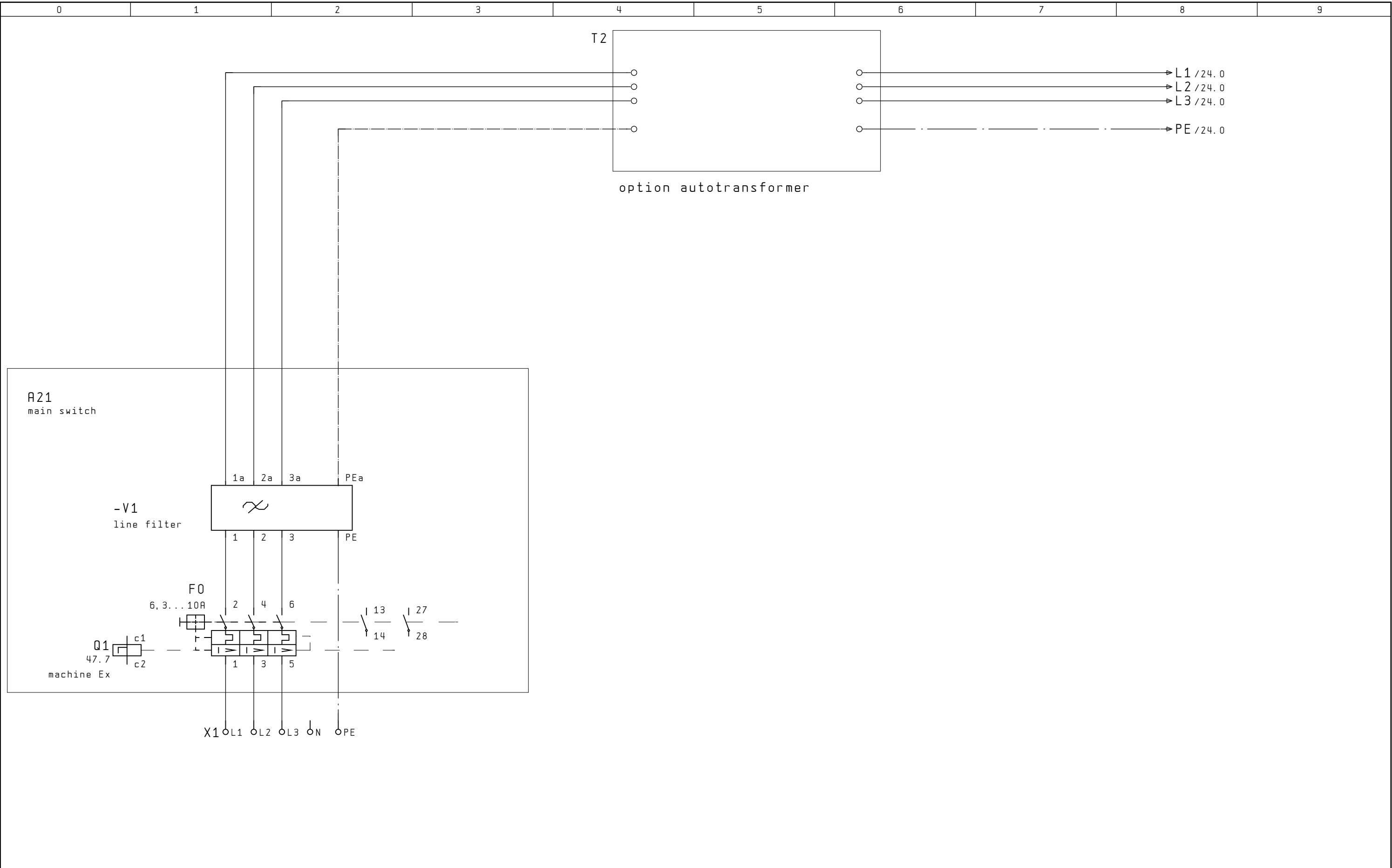


XL100=power supply supply lead 57V ~
XL107=STIXX
XL113=engaging rod
XL121=reserve
XL123=elektro 1
XL130=knot dedector, lamp
XL133=CAN
XL136=needle impuls rear right
XL137=needle impuls front right
XL138=needle impuls rear left
XL139=needle impuls front left
XL142=reserve K+W
XL143=additional card data
XL151=batterie
XL152=signals left
XL153=Jumper encoder
XL154=piezo needle bed front. + rear.
XL155=piezo 730T + 530T
XL156=Piezo-??? 530T
XL157=YC Gr1-YC1-4
XL158=YC Gr1-YC5-8
XL159=YC Gr2-YC1-4
XL160=YC Gr2-YC5-8
XL161=YC left
XL162=YC right
XL163=chrash sensor CMS730S/830S
XL164=length measurement device right (ASCON)
XL165=length measurement device left (ASCON)
XL207=keypad/Display-contr. BUS//>
XL215=USB 1
XL216=USB 2
XL217=Display LVDS
XL321=carriage power rear left
XL322=carriage signals rear left
XL323=carriage power front left
XL324=carriage signals front left
XL325=carriage power rear right
XL326=carriage signals rear right
XL327=carriage power front right
XL328=carriage signals front right
XL329=K/S-drive right
XL330=K/S-sensors
XL331=K/S-drive left

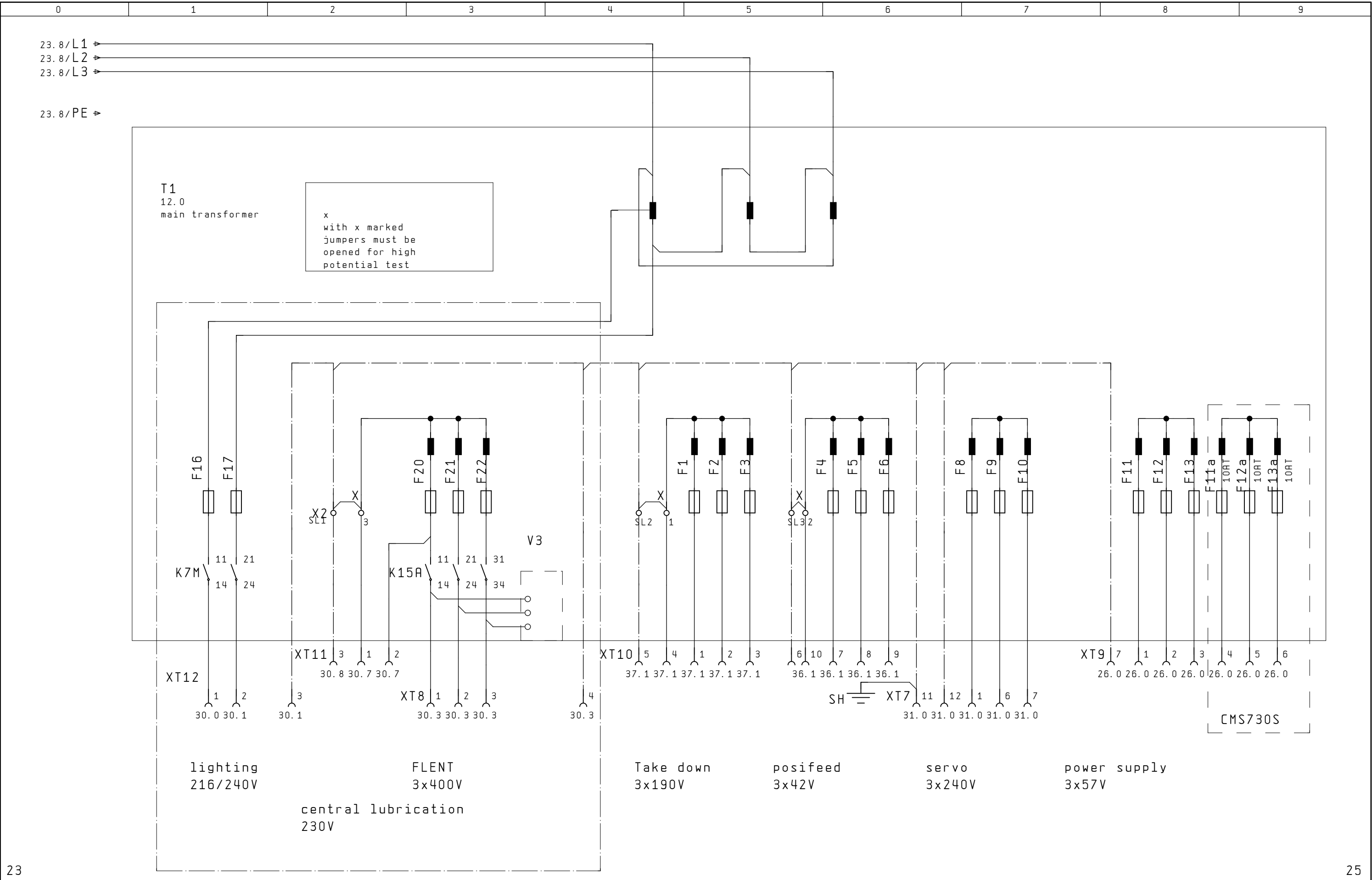


0	1	2	3	4	5	6	7	8	9
transformer XT7=servo XT8=FLENT XT9=power supply/lighting XT10=signals lighting / FLENT XT11=central lubrication XT12=lighting X1=main connection main switch X2=adittional clamp transformer XZ2=MC-lighting XZ4=resolver main drive XZ5=resolver racking XZ6=connector FKE,warning light XZ7=engaging rod XZ8=motor main drive XZ9=motor racking XZ11=posifeed left XZ12=posifeed right XZ14=motor Take down XZ15=motor comb XZ16=motor auxiliary take down XZ17=motor comb hook XZ18=warning light XZ19=FKE XZ20=Piezo NB front XZ21=Piezo NB rear XZ23li=lateral slack tensioner left XZ23re=lateral slack tensioner right XZ24=shrouding covers XZ30=encoder auxiliary take down XZ31=encoder Take down XZ32=encoder comb XZ34=brake /temperature comb XZ35=brake /temperature Take down XZ36=switch auxiliary take down closed XZ37=position comb top XZ38=position comb below XZ39=winding plate Take down rear. XZ58li=protective hood left XZ58re=protective hood right XZ59=winding plate Take down front. XZ45=limit switch racking XZ50=FLENT XZ51=FLENT signal XZ77=central lubrication XZ78=signal central lubrication									
21									23

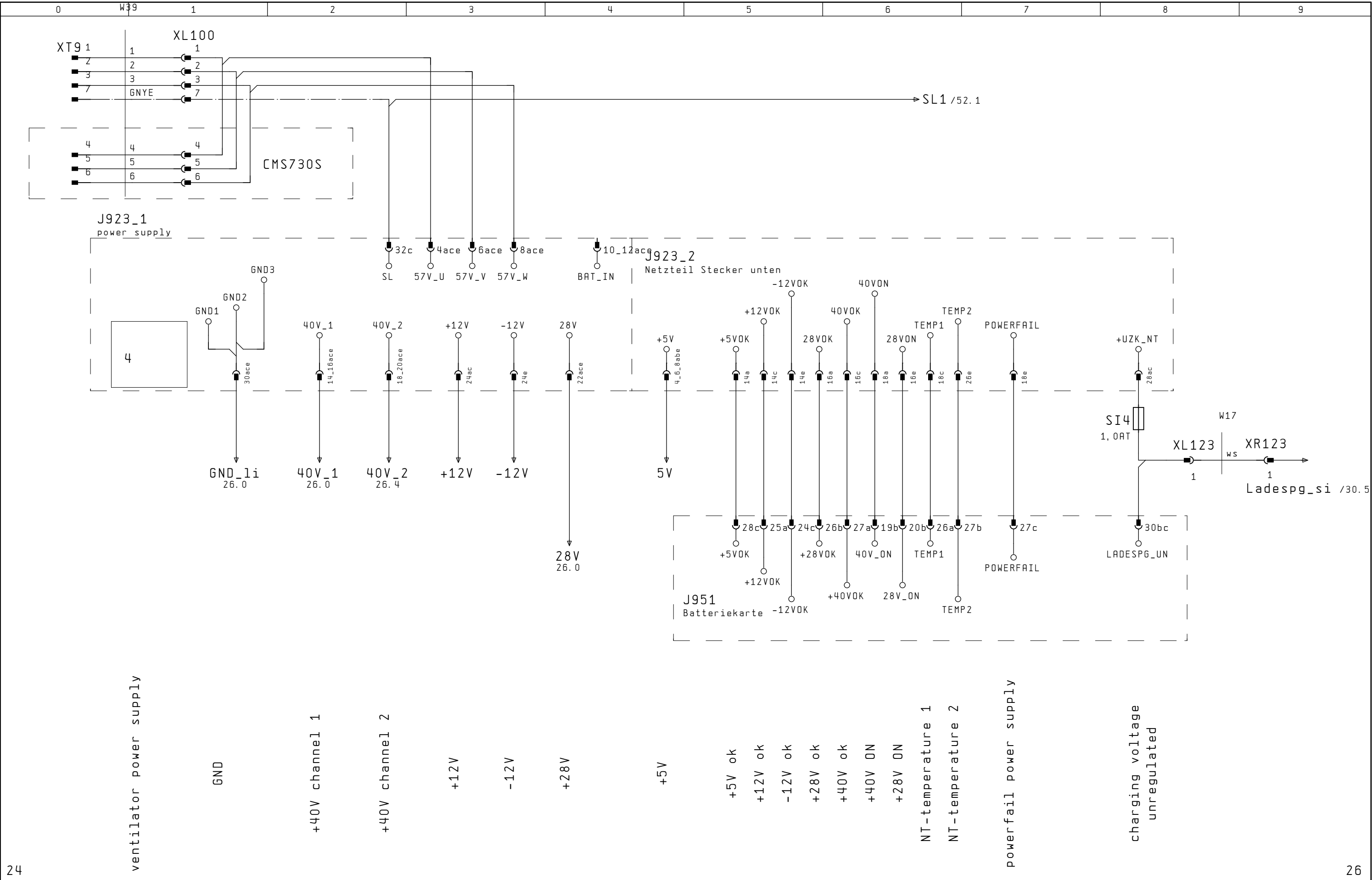
			Datum		circuit diagram 221	H. Stoll GmbH & Co. KG	connector definition connectors external	Id. Nr. 257 279		=
			Bearb.	KEH						+
			Gepr.	27. Mär. 2009				Ä. St. 00		B1. 22
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.			57 B1.

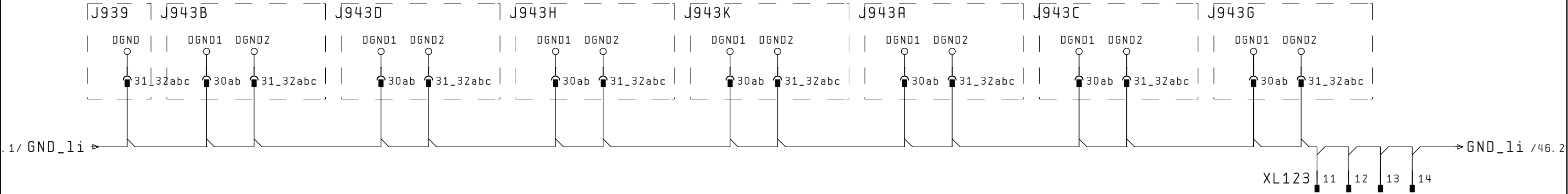
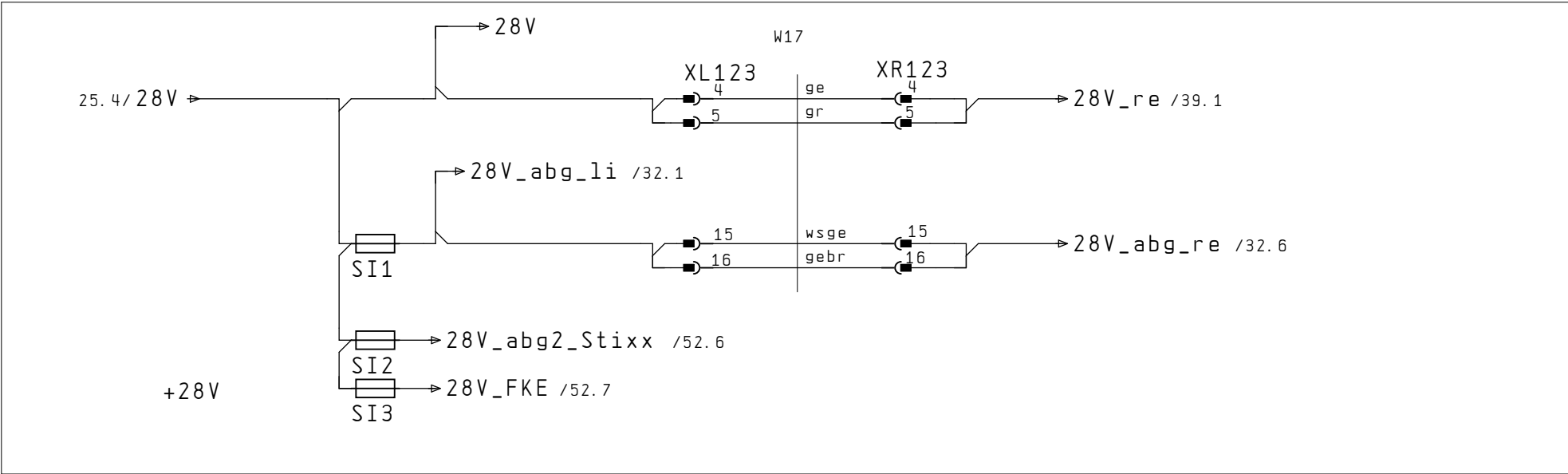
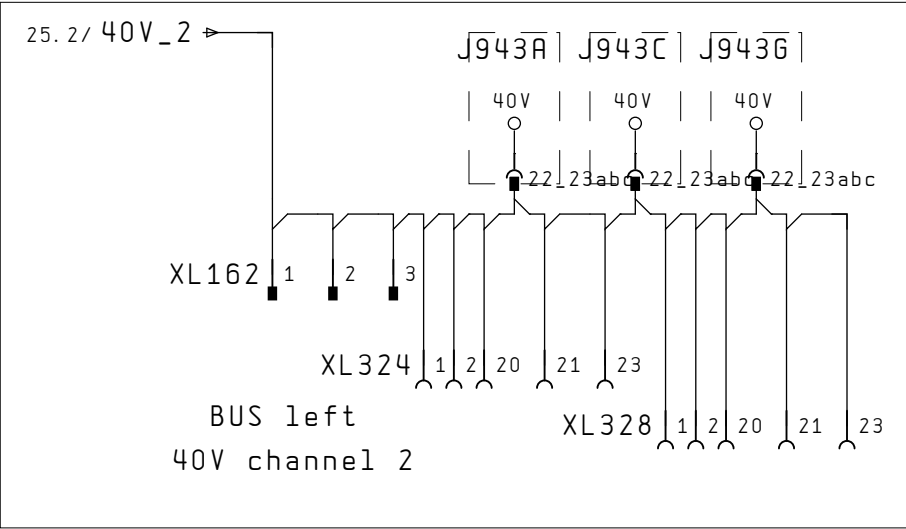
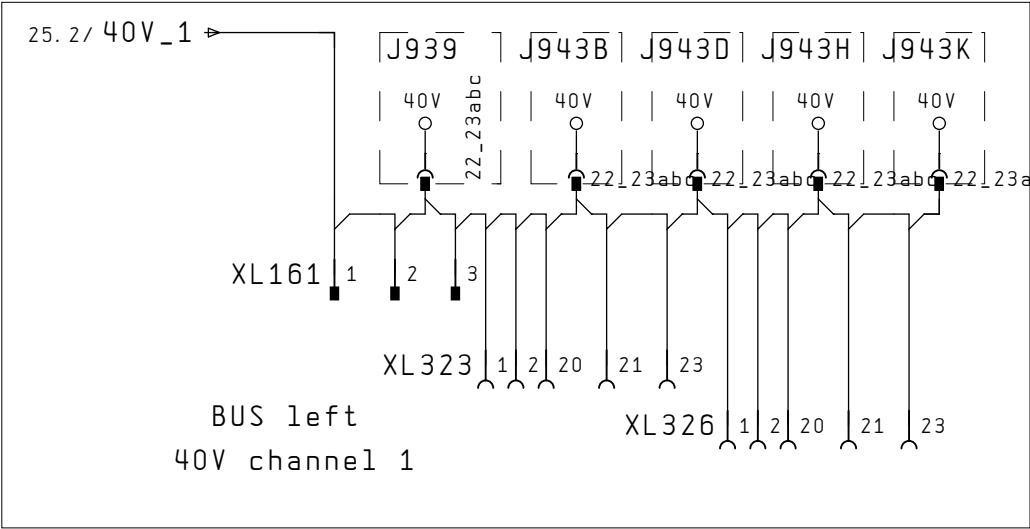


			Datum		circuit diagram 221	H. Stoll GmbH & Co. KG	supply	Id. Nr. 257 279		=		
			Bearb.	KEH						+		
			Gepr.	27. Mär. 2009							B1.	23
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.				57 B1.	

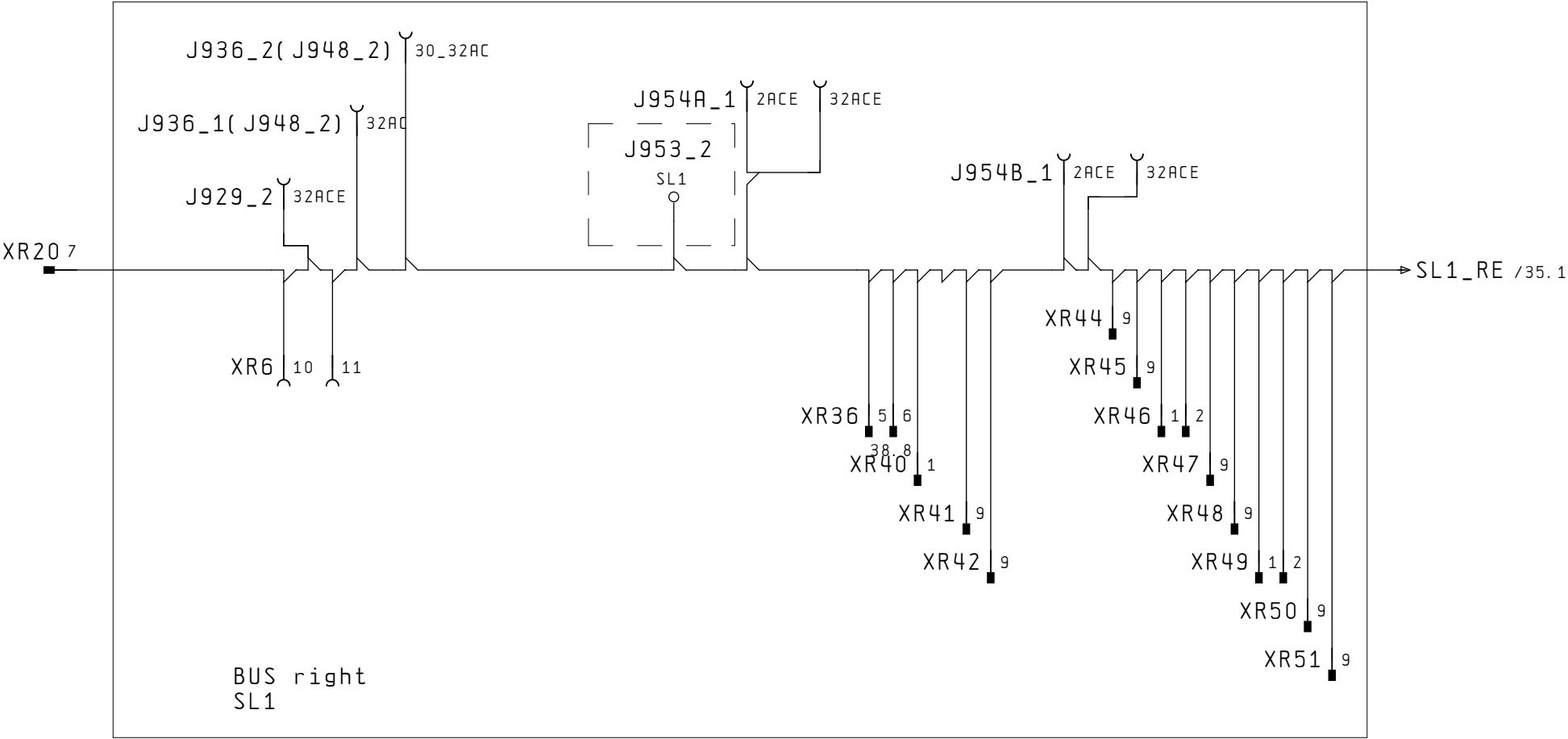
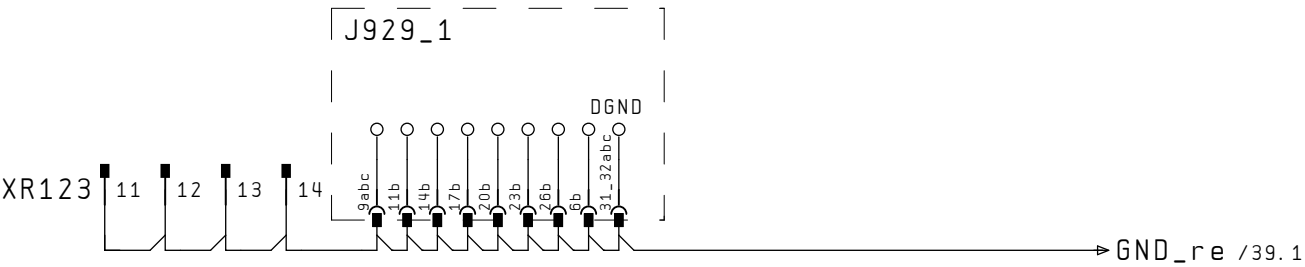


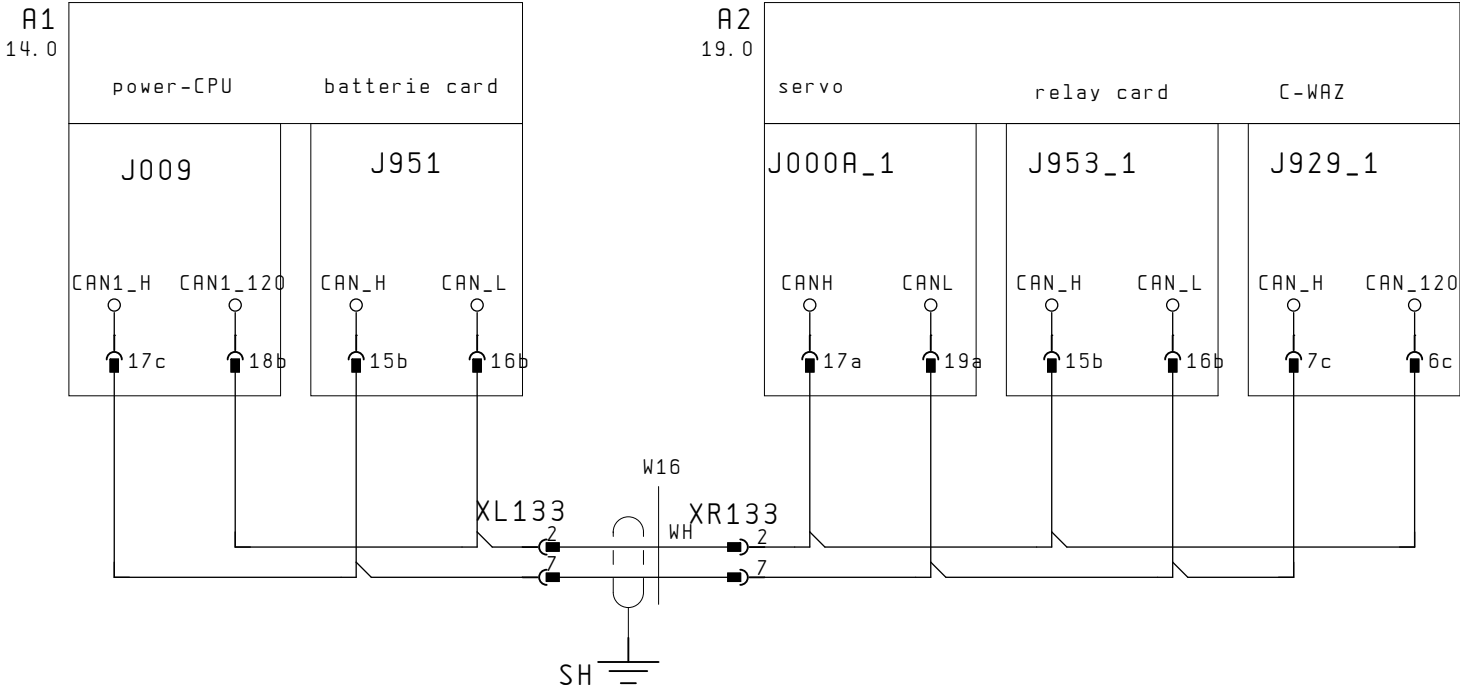
			Datum		circuit diagram 221		H. Stoll GmbH & Co. KG	transformer	Id. Nr. 257 279		=	
			Bearb. KEH								+	
			Gepr. 27. Mär. 2009									
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.		Ä. St. 00		B1. 24	
											57 B1.	

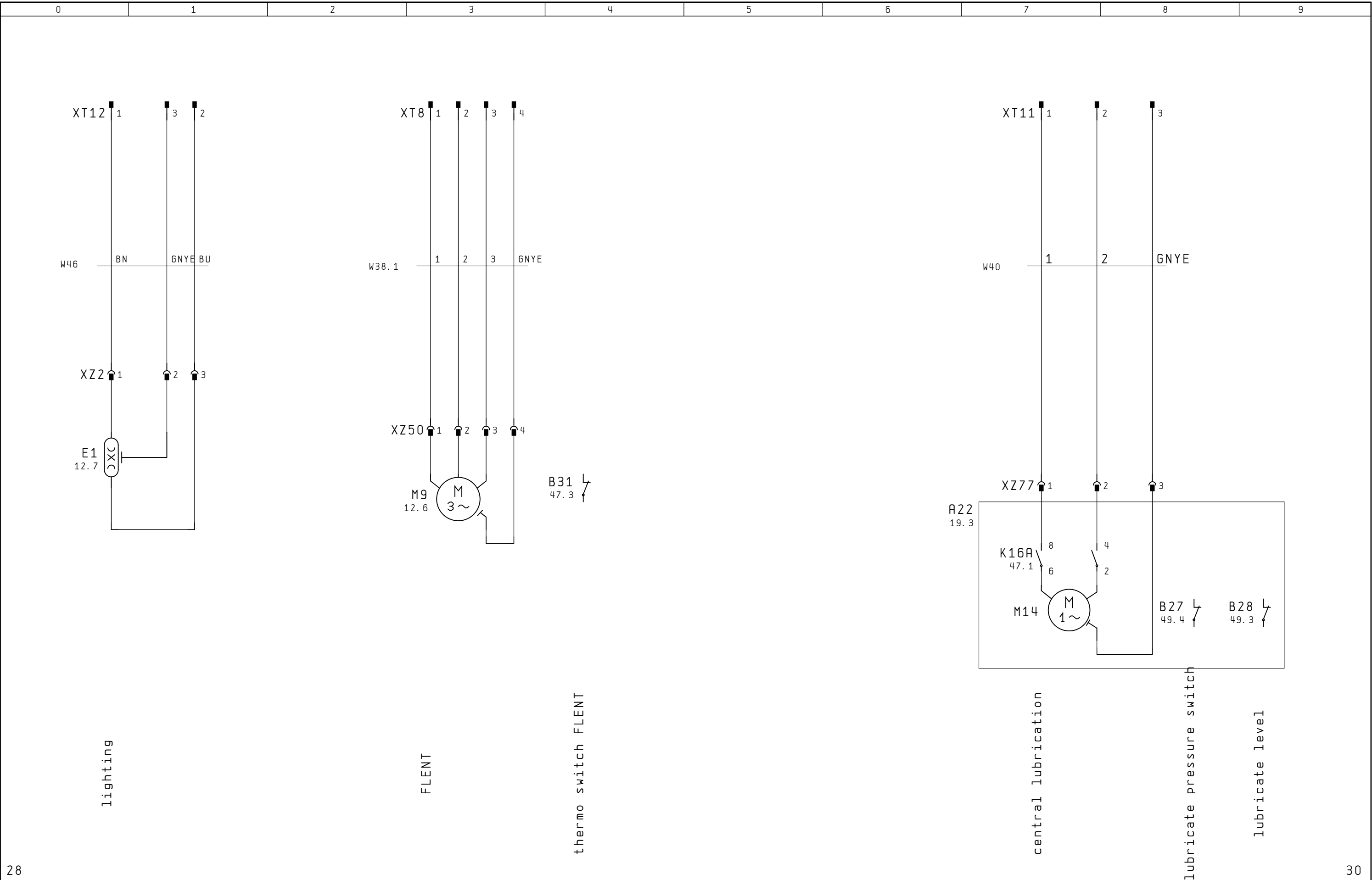




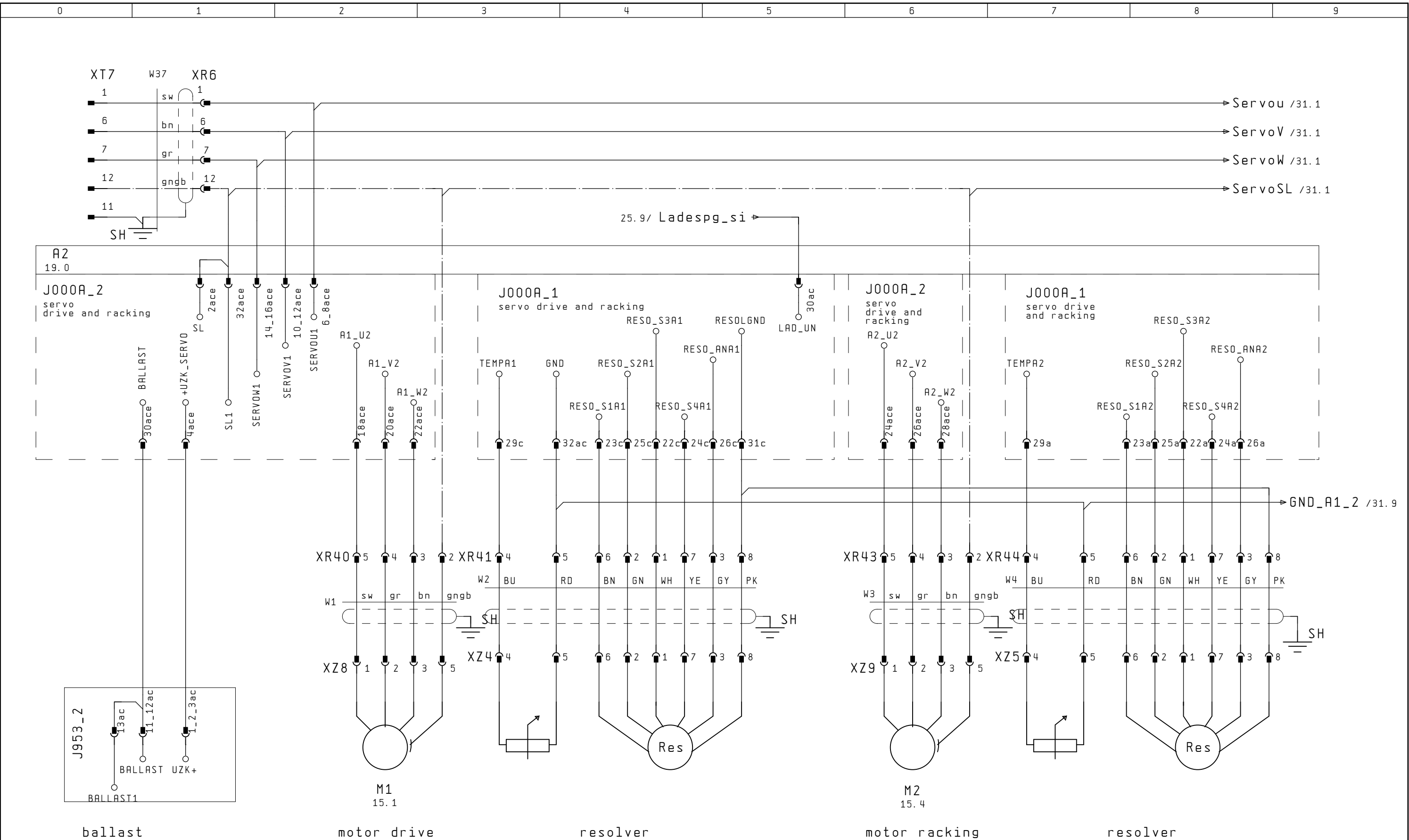
			Datum		circuit diagram 221		H.Stoll GmbH & Co. KG	power allocation wiring system left	Id.Nr. 257 279		=		
			Bearb. KEH								+		
			Gepr. 27. Mär. 2009										
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.	Ä.St.00				B1. 26	
											57 B1.		



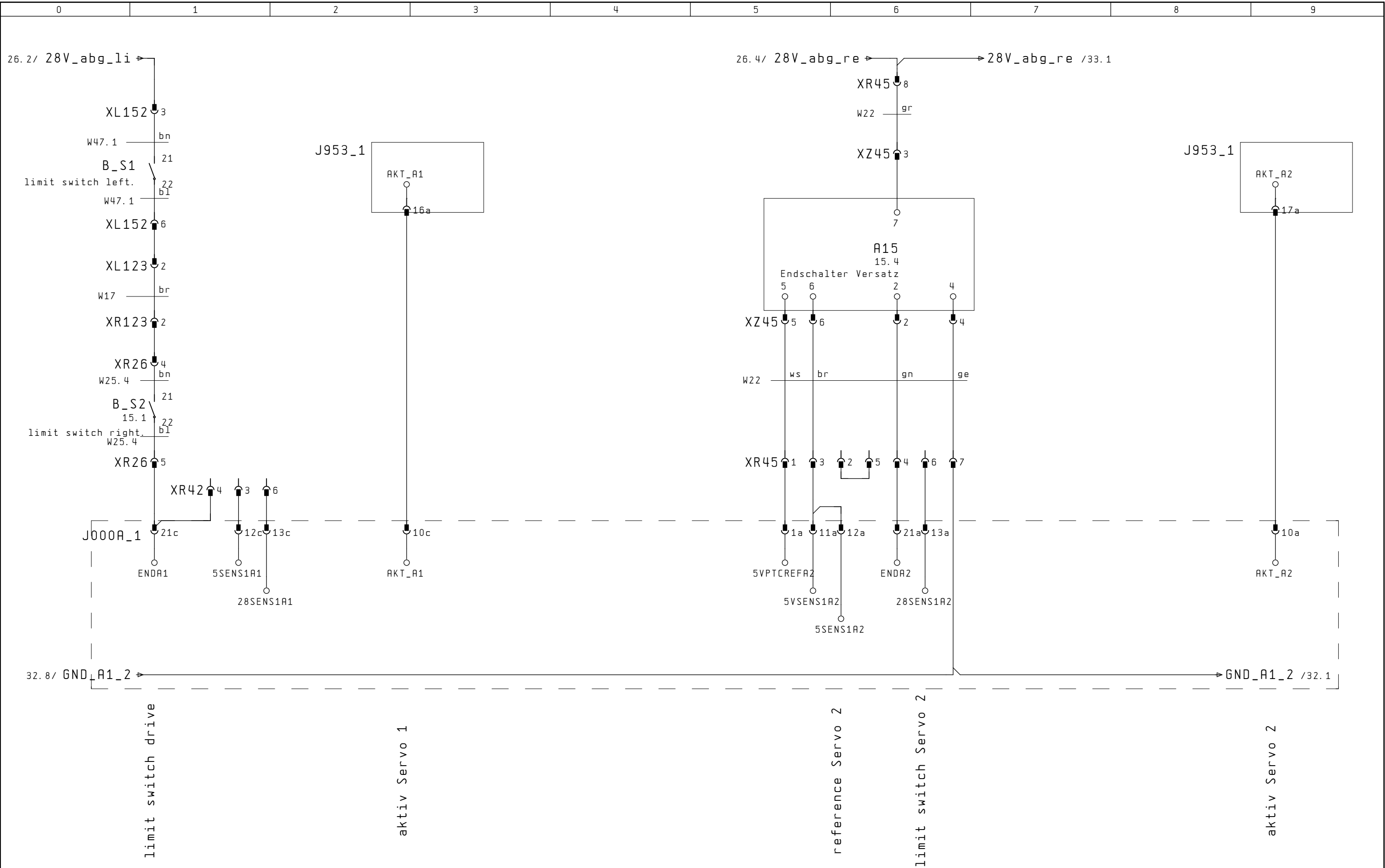




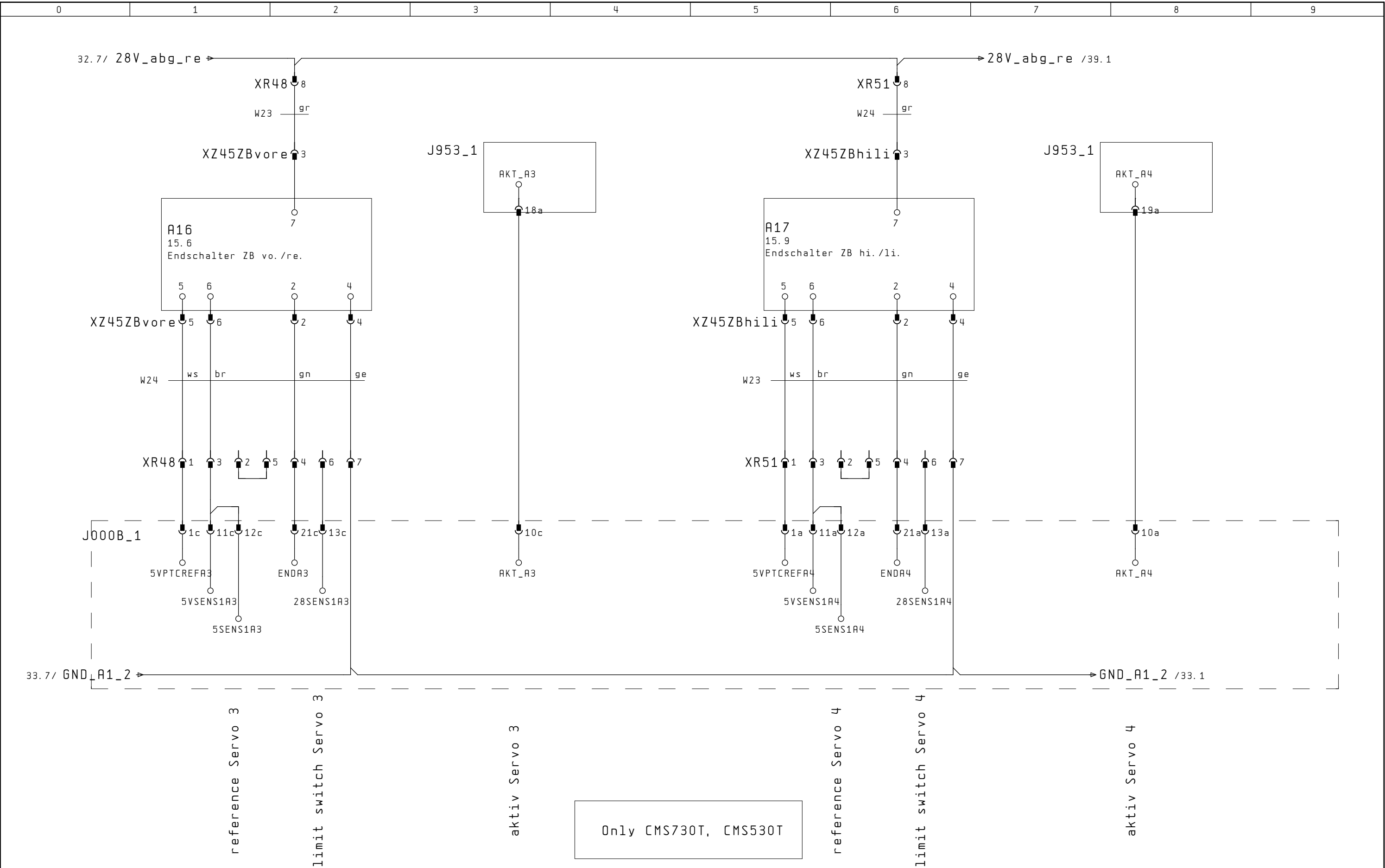
28								30			
			Datum	circuit diagram 221				Id. Nr. 257 279			
			Bearb.					=			
			Gepr.					+			
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.	H. Stoll				B1. 29
STOLL							lighting fluff elemination central lubrication				57 B1.
				H. Stoll GmbH & Co. KG				H. St. 00			
				THE RIGHT WAY TO KNIT							



			Datum		circuit diagram 221		H. Stoll GmbH & Co. KG	servo drive and racking	Id. Nr. 257 279			
			Bearb.	KEH								
			Gepr.	27. Mär. 2009								
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.	Ä. St. 00		B1.	30	
										57 B1.		



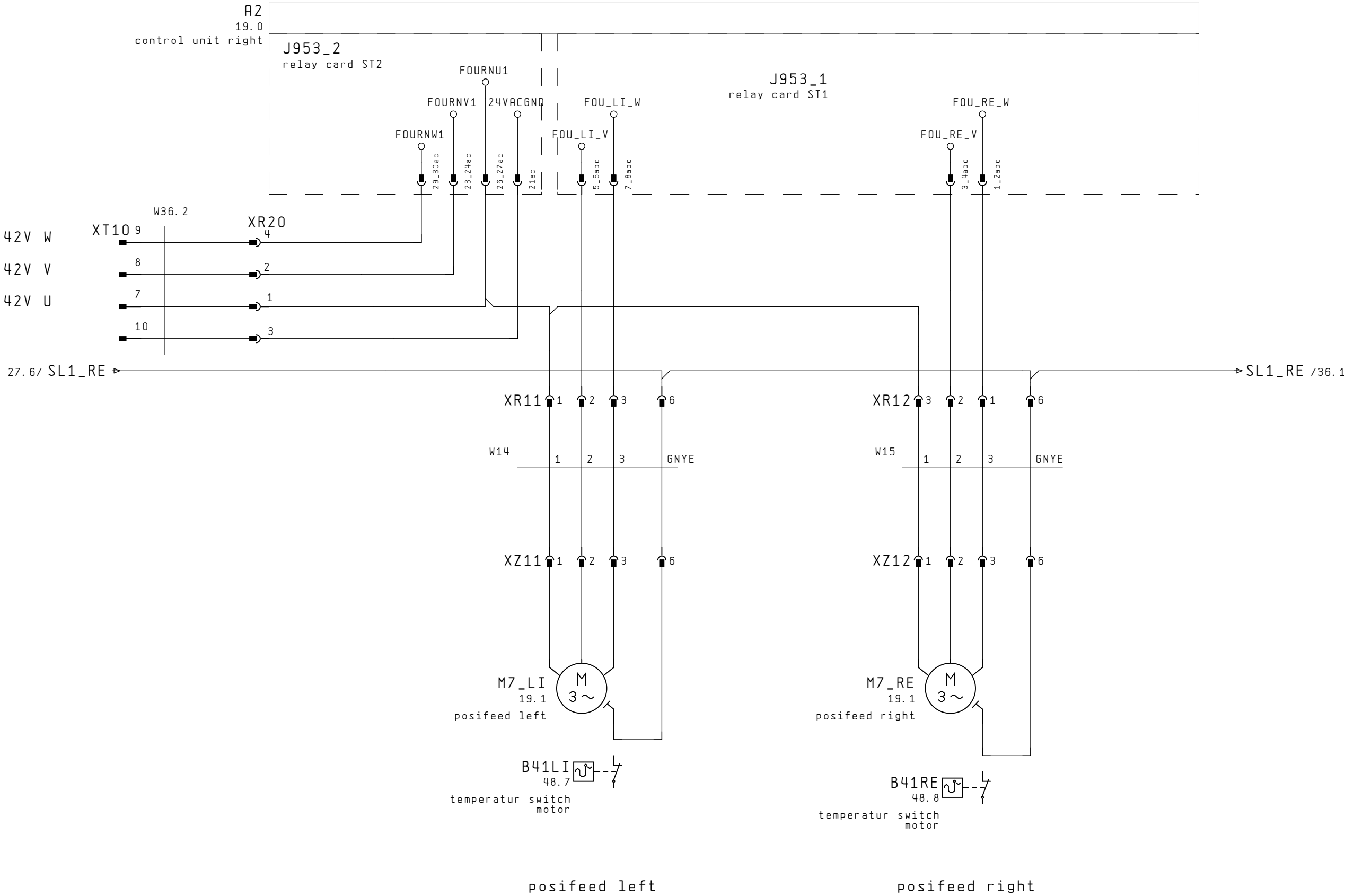
			Datum		circuit diagram 221	H. Stoll GmbH & Co. KG	inputs servo HA+V	Id. Nr. 257 279		=		
			Bearb.	KEH						+		
			Gepr.	27. Mär. 2009							B1.	32
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.				57 B1.	

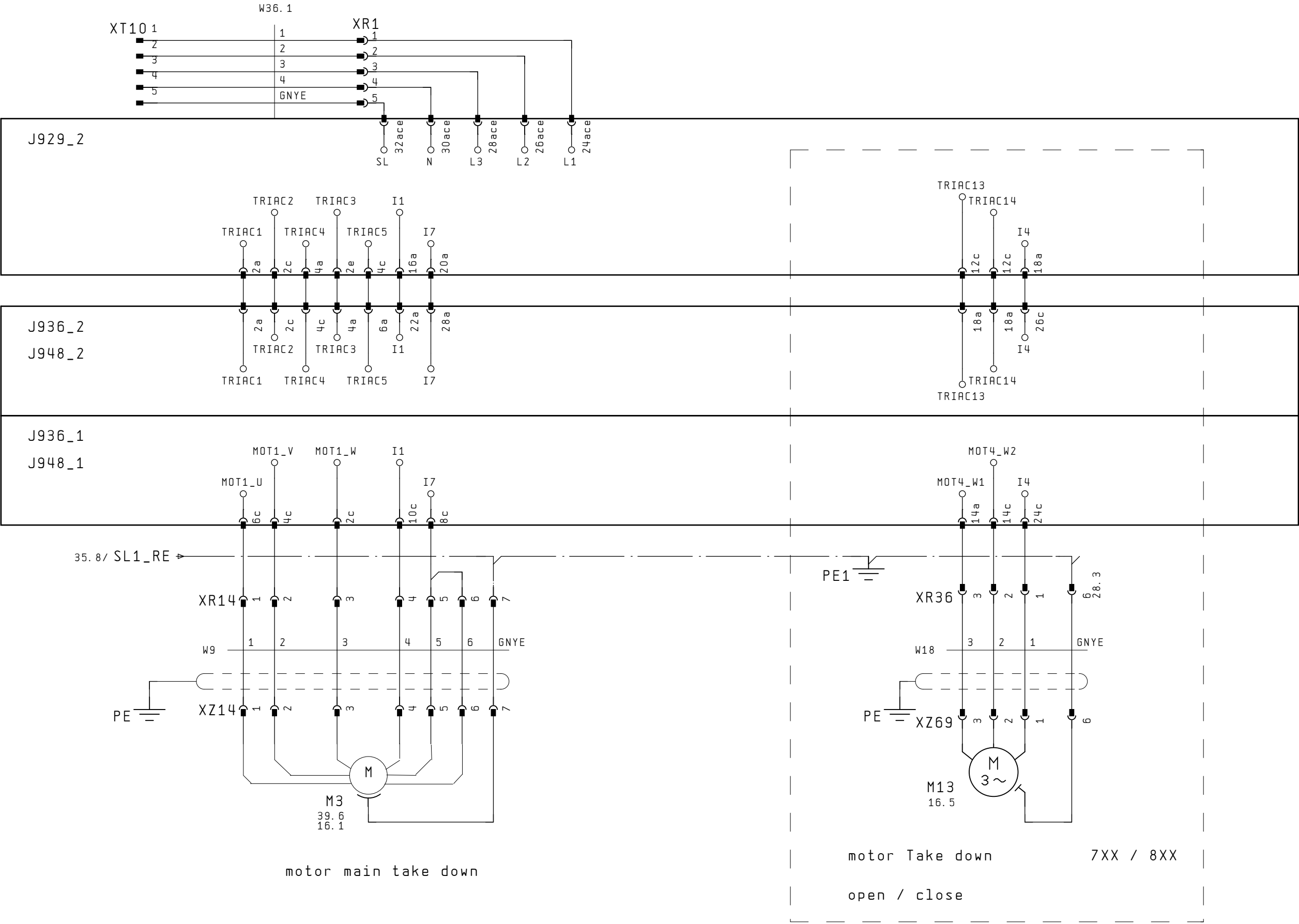


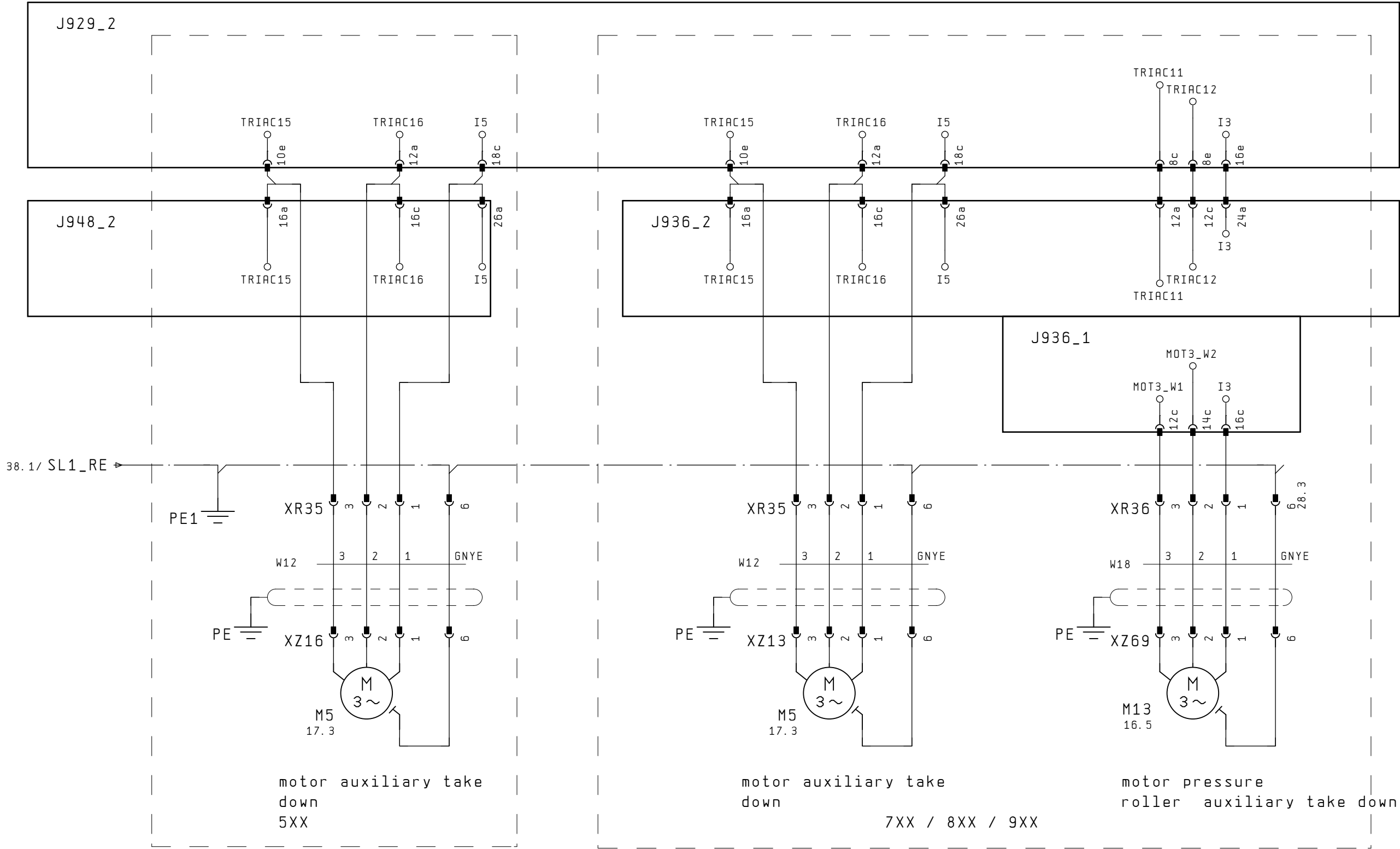
			Datum		circuit diagram 221		H. Stoll GmbH & Co. KG	inputs servos additional neddle beds	Id. Nr. 257 279		=		
			Bearb.	KEH							+		
			Gepr.	27. Mär. 2009									
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.	Ä. St. 00				B1.	33
												57 B1.	

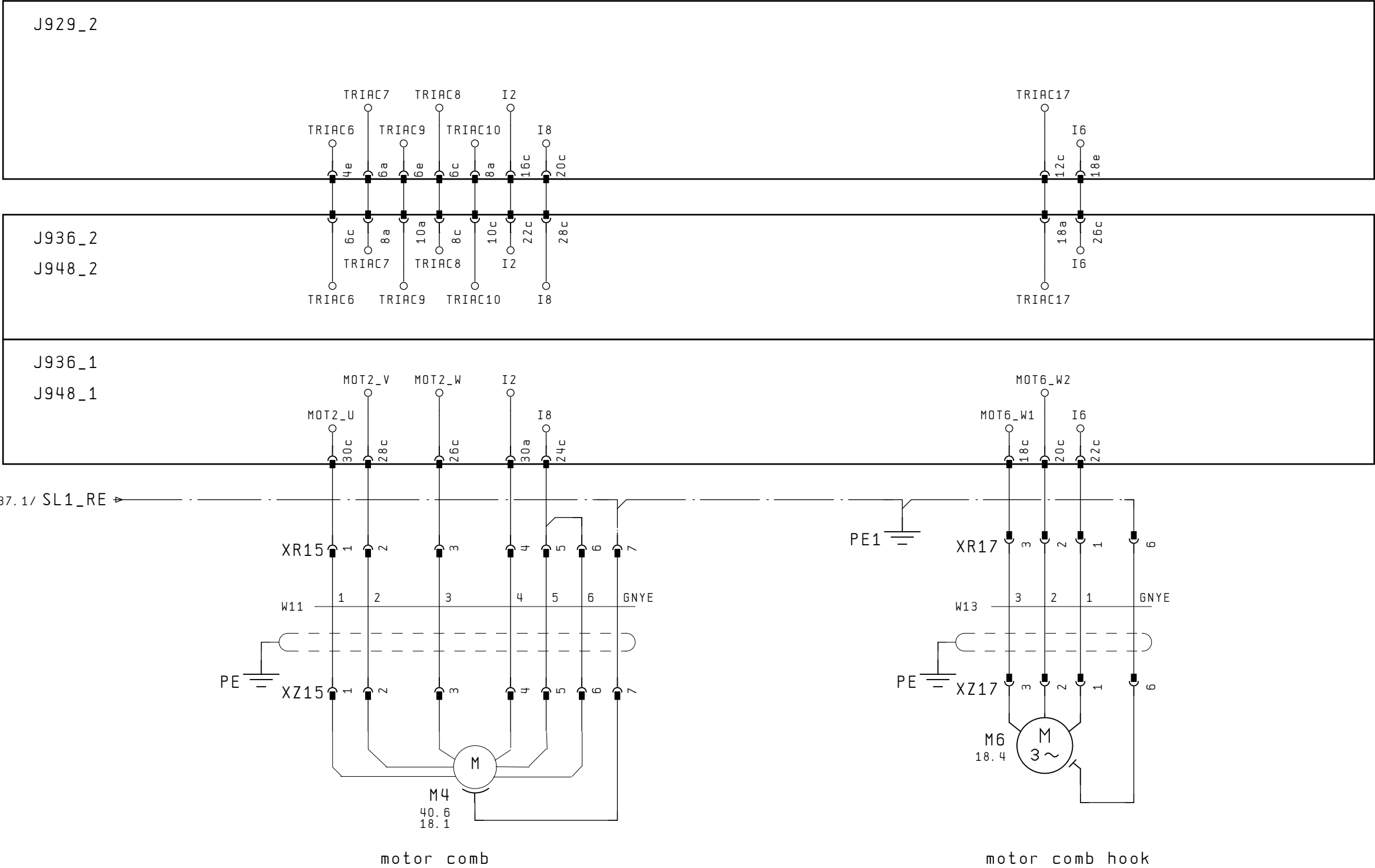
A2
19.0

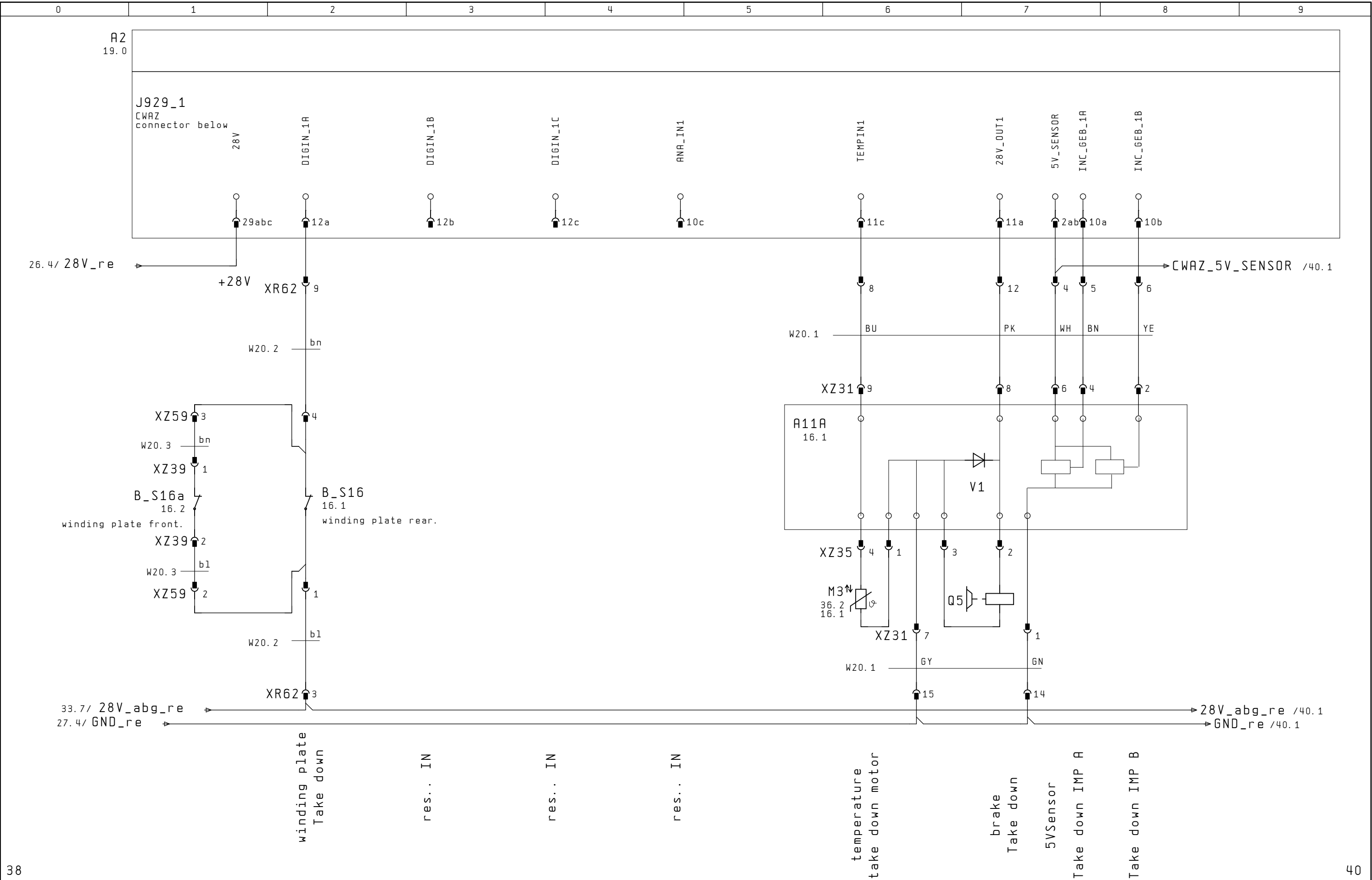


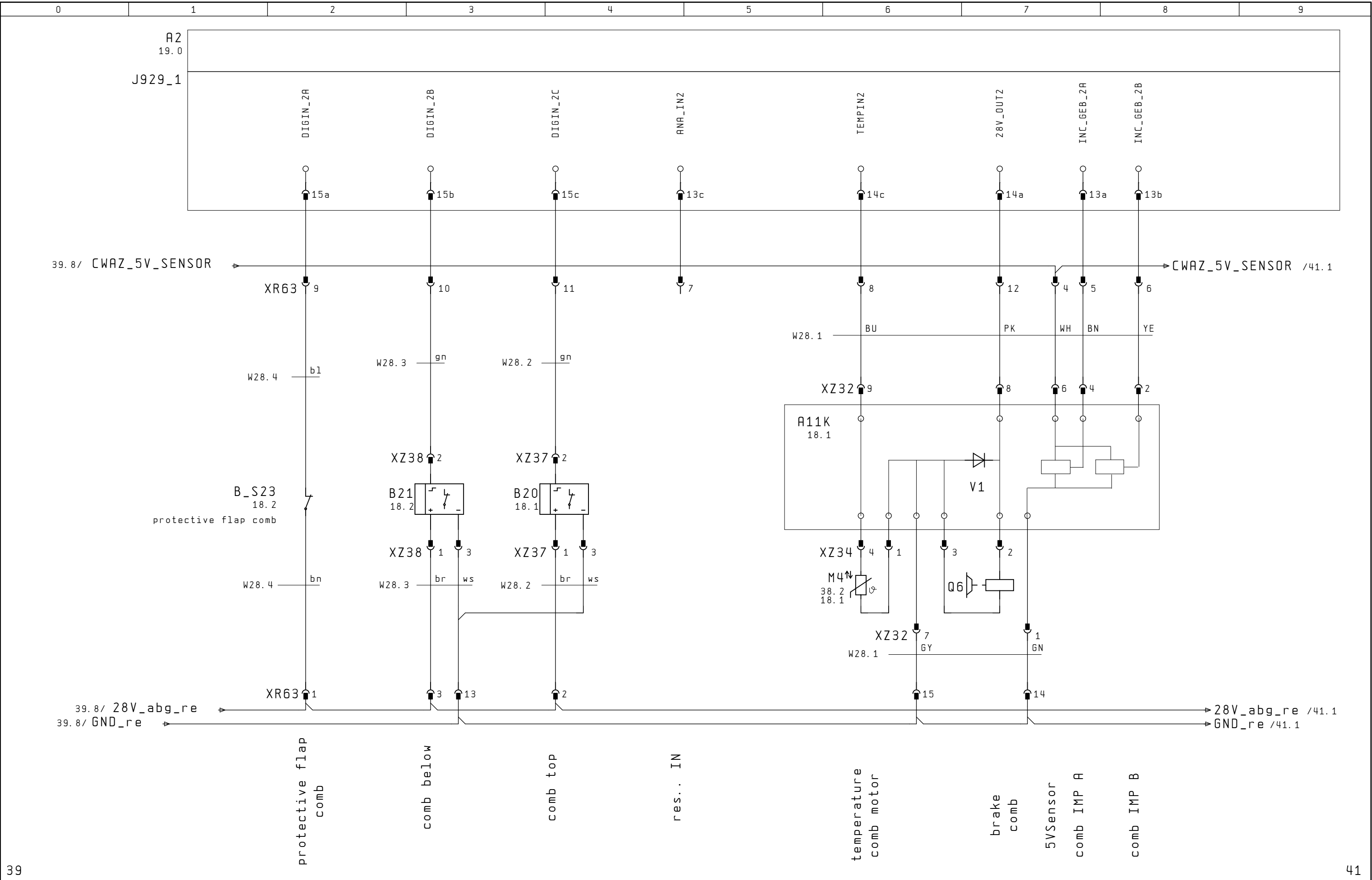


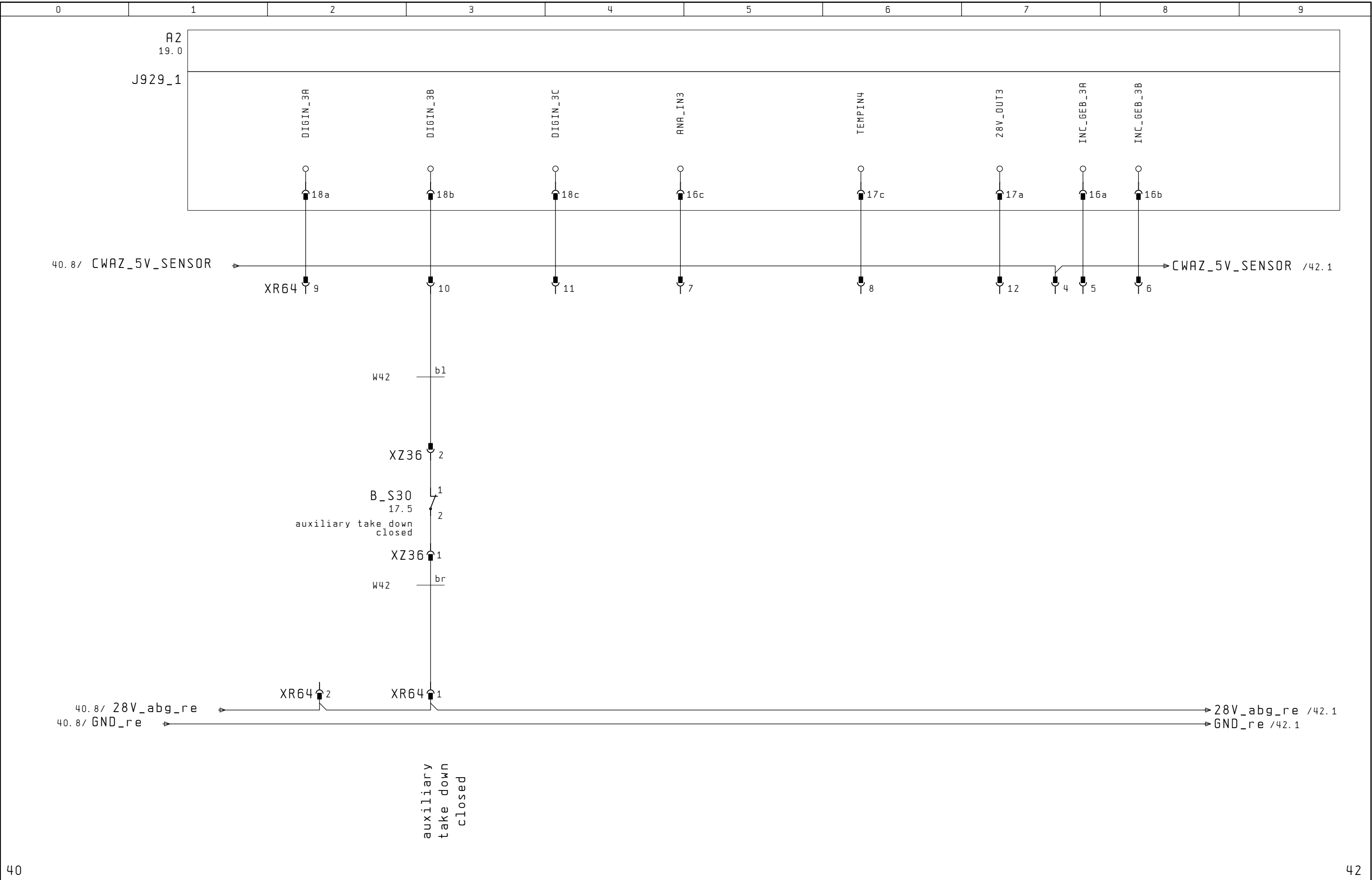


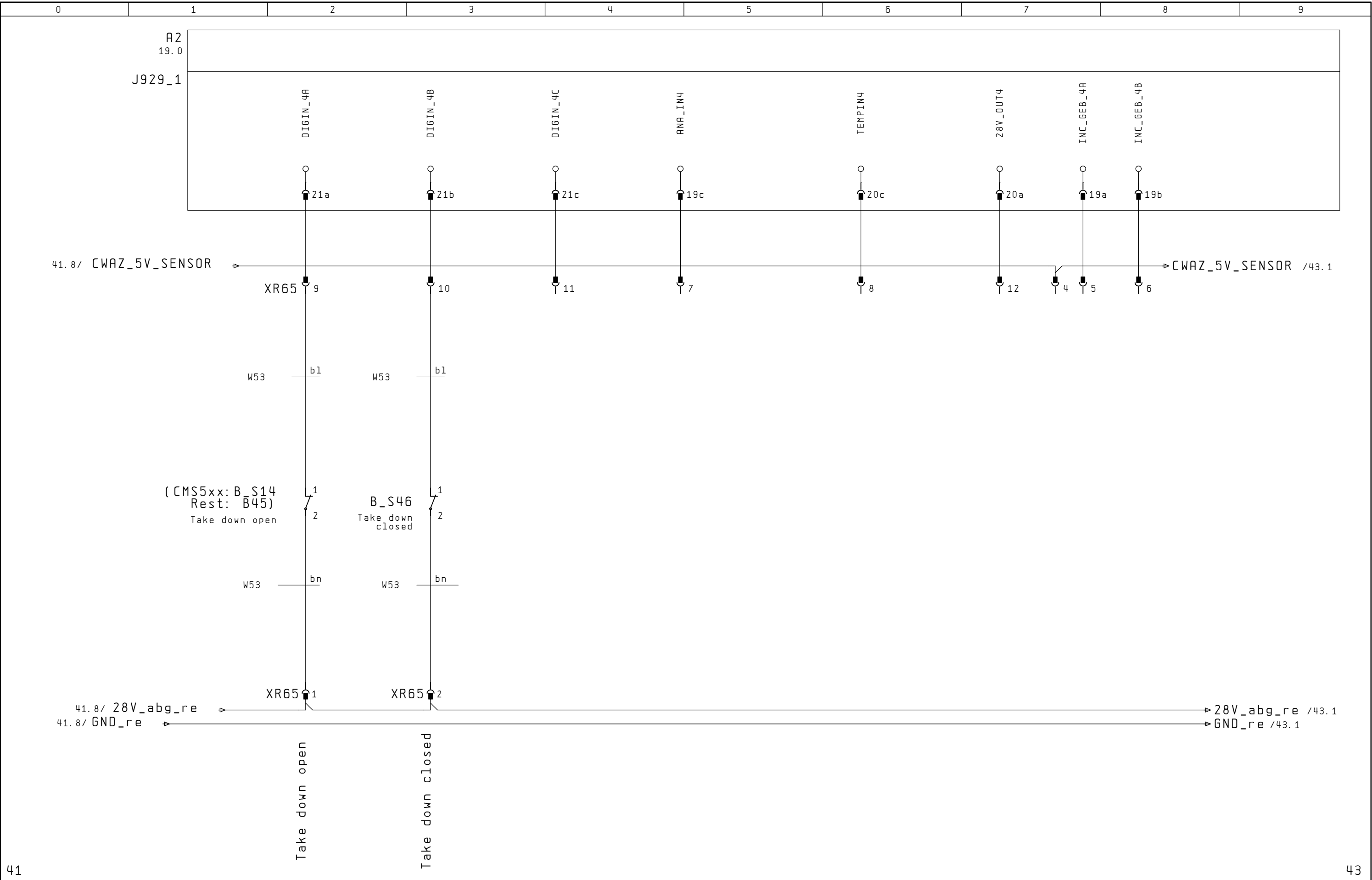


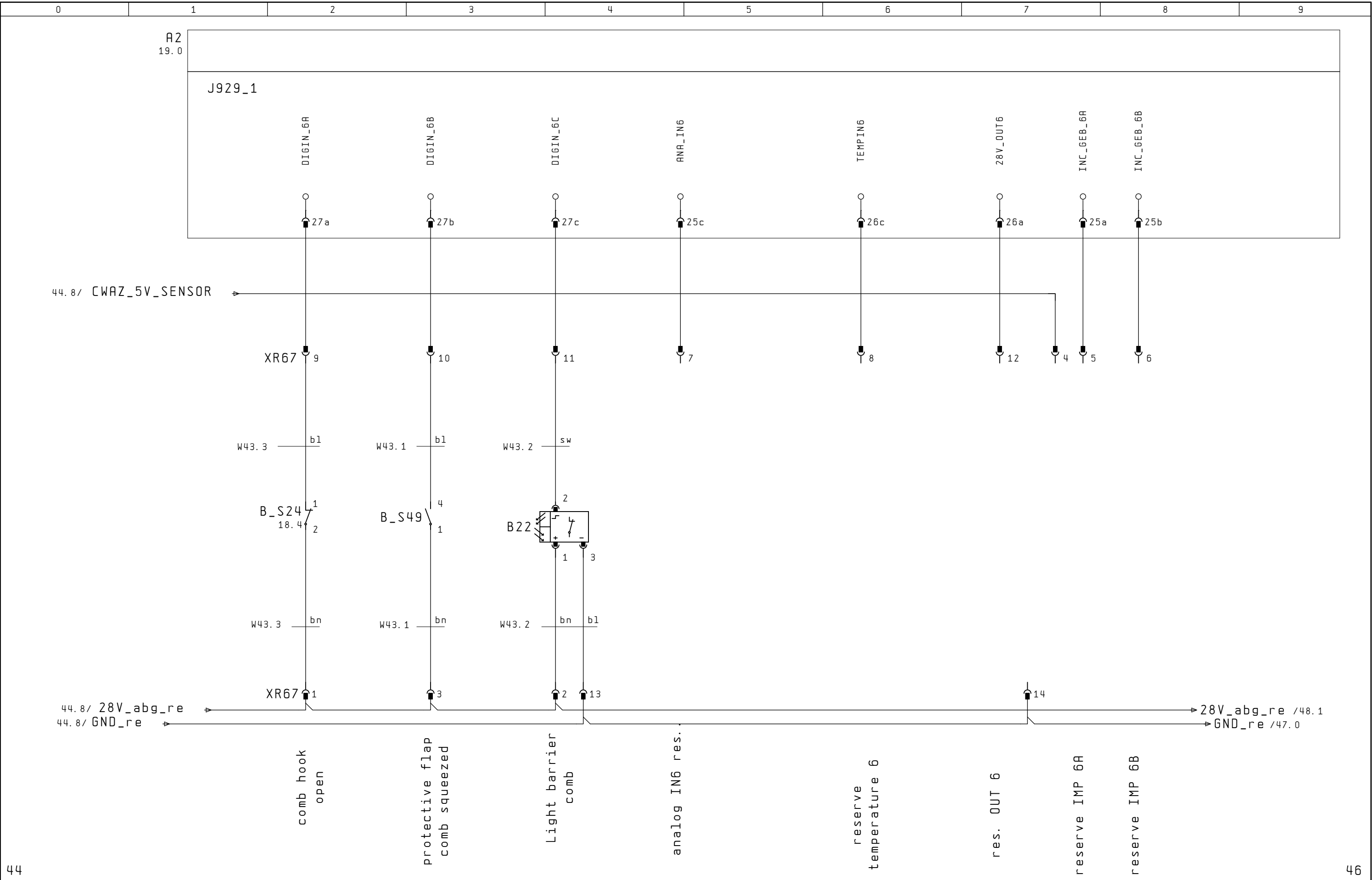


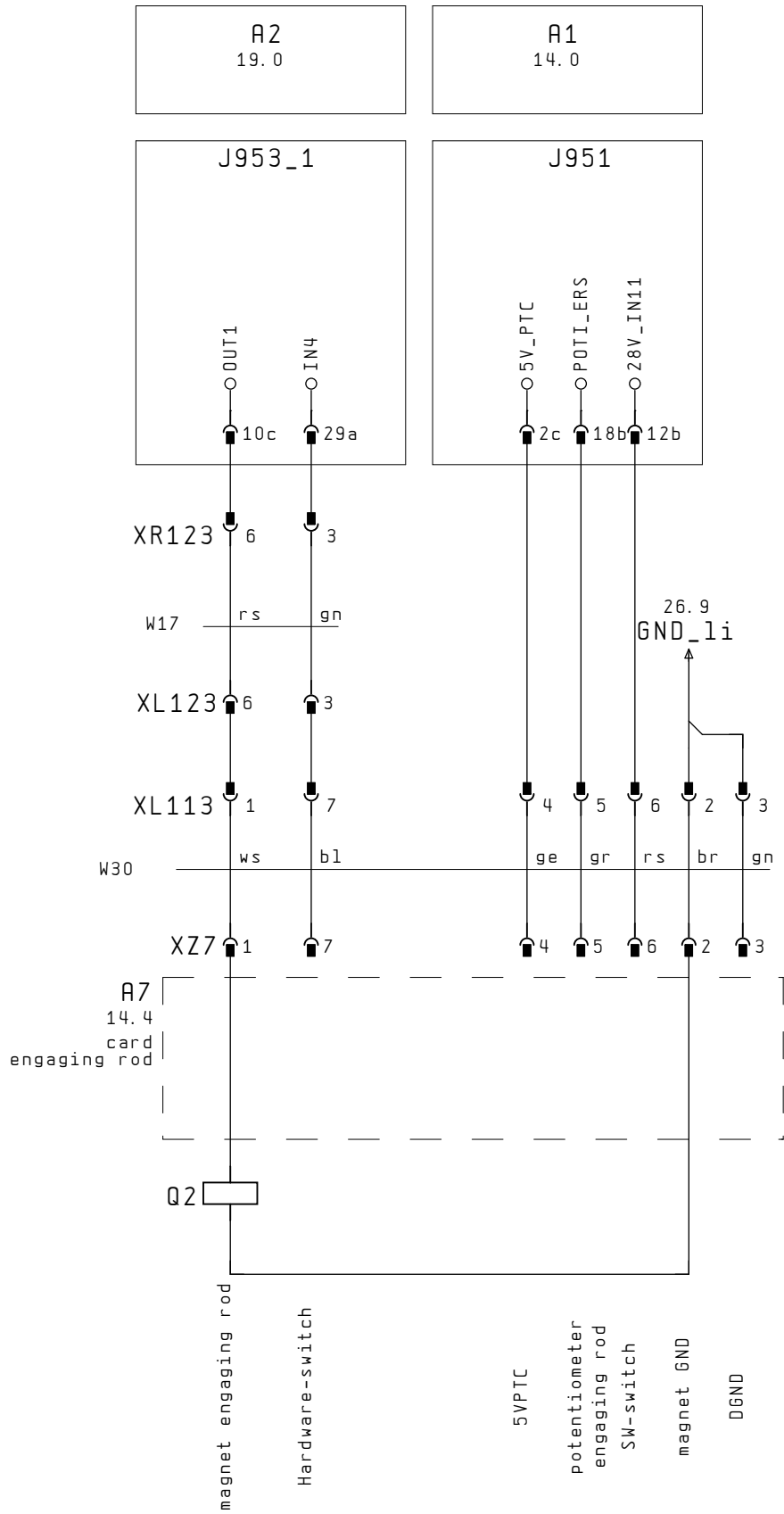


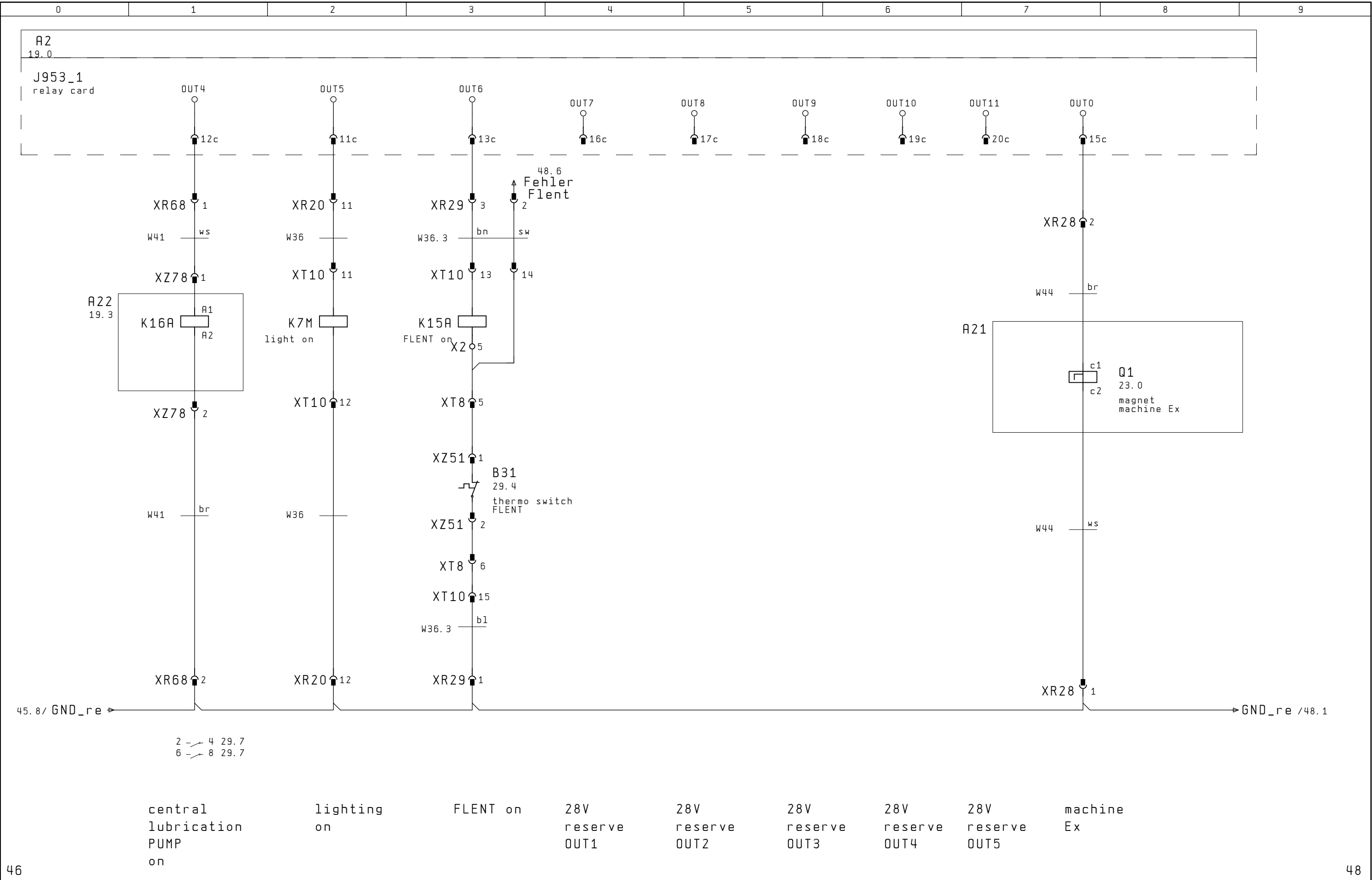


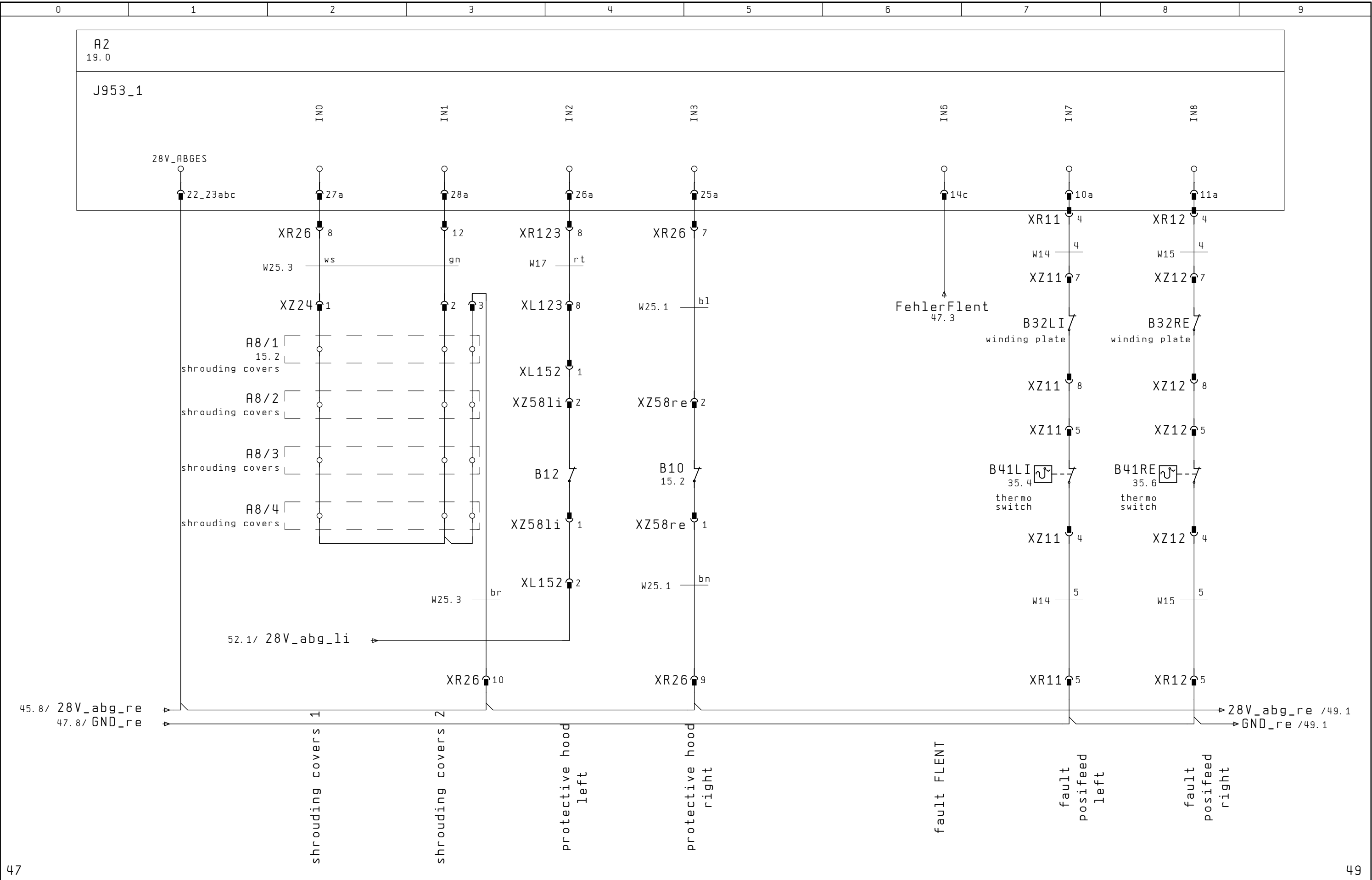


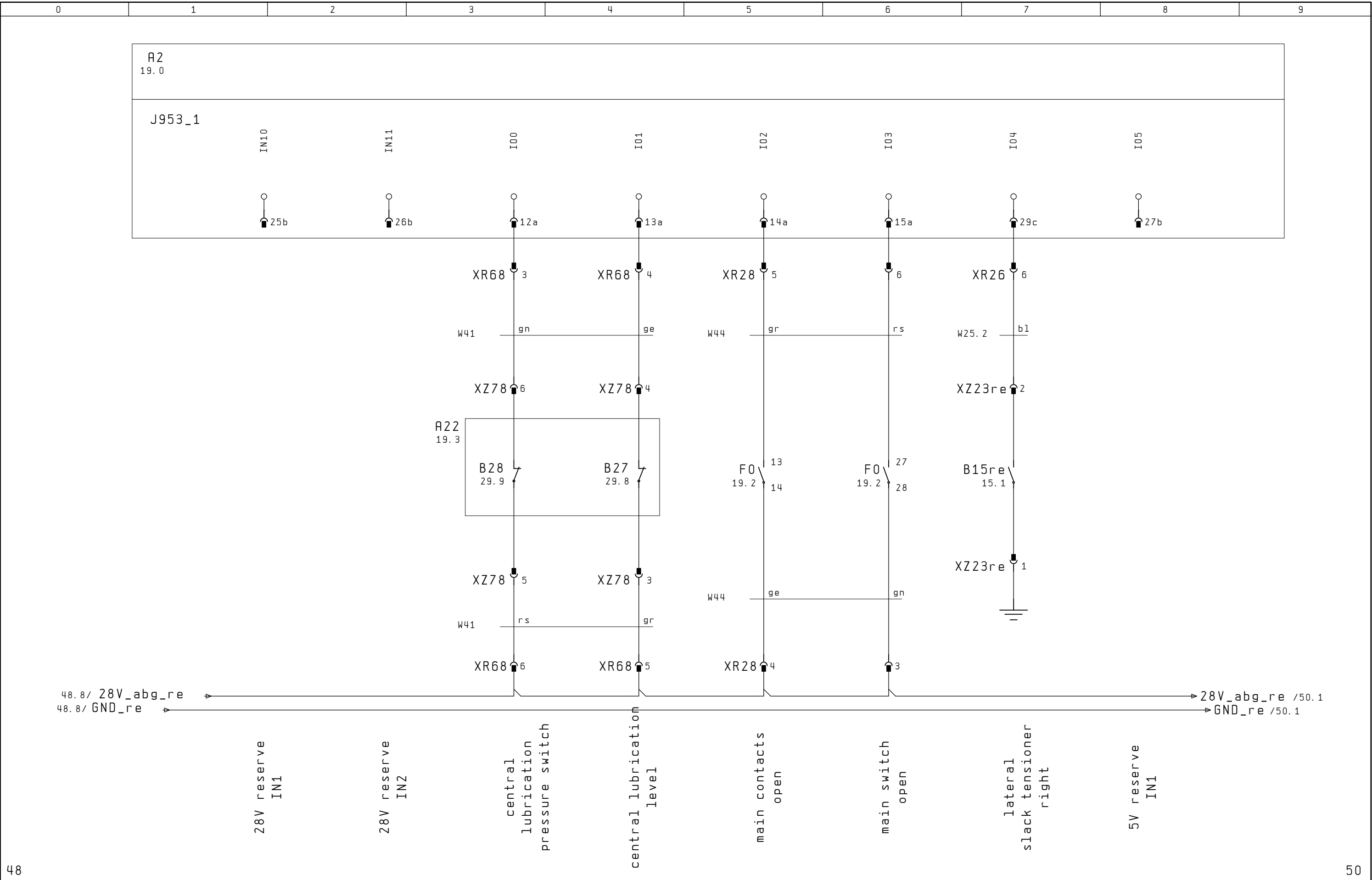


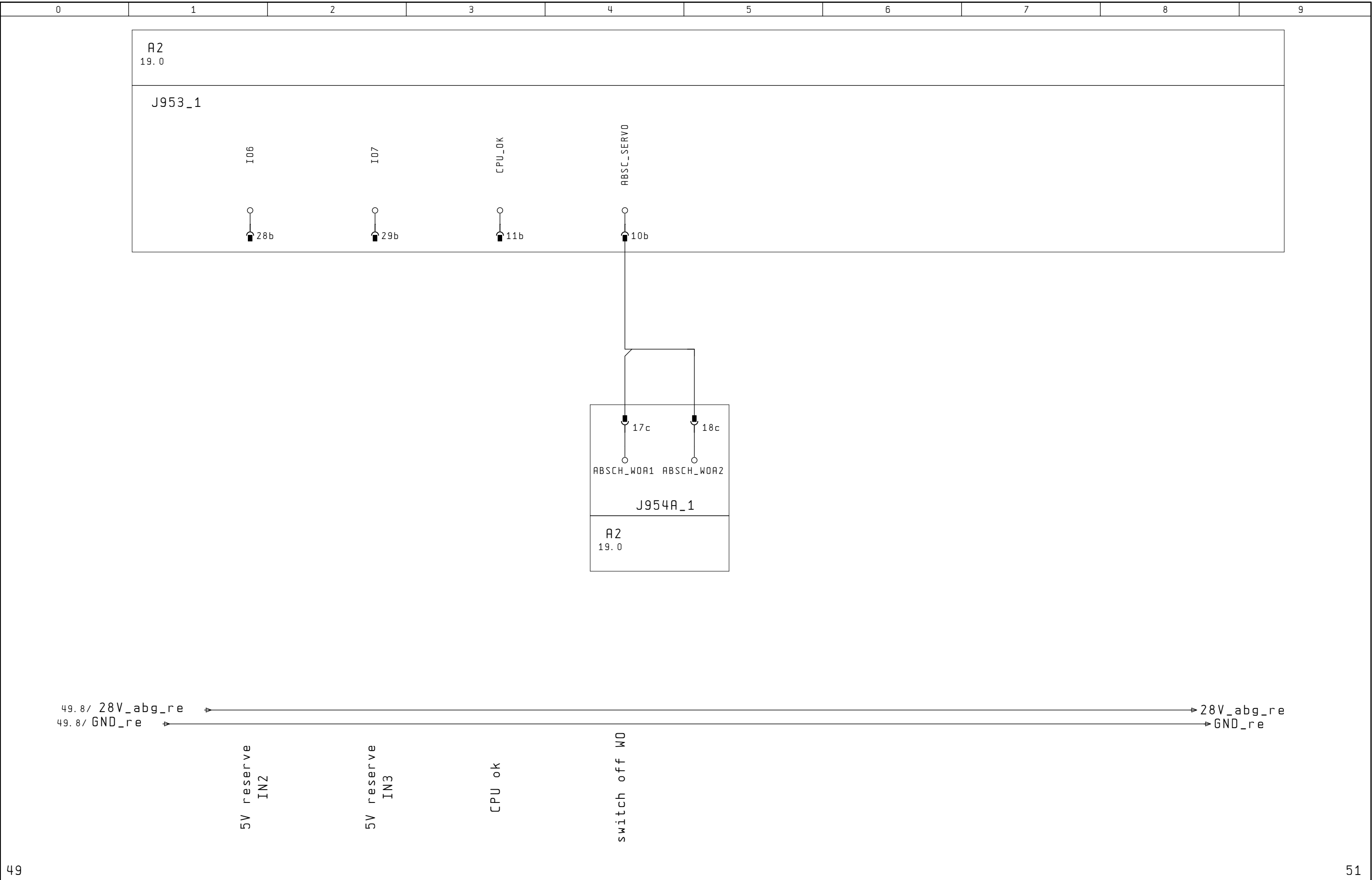


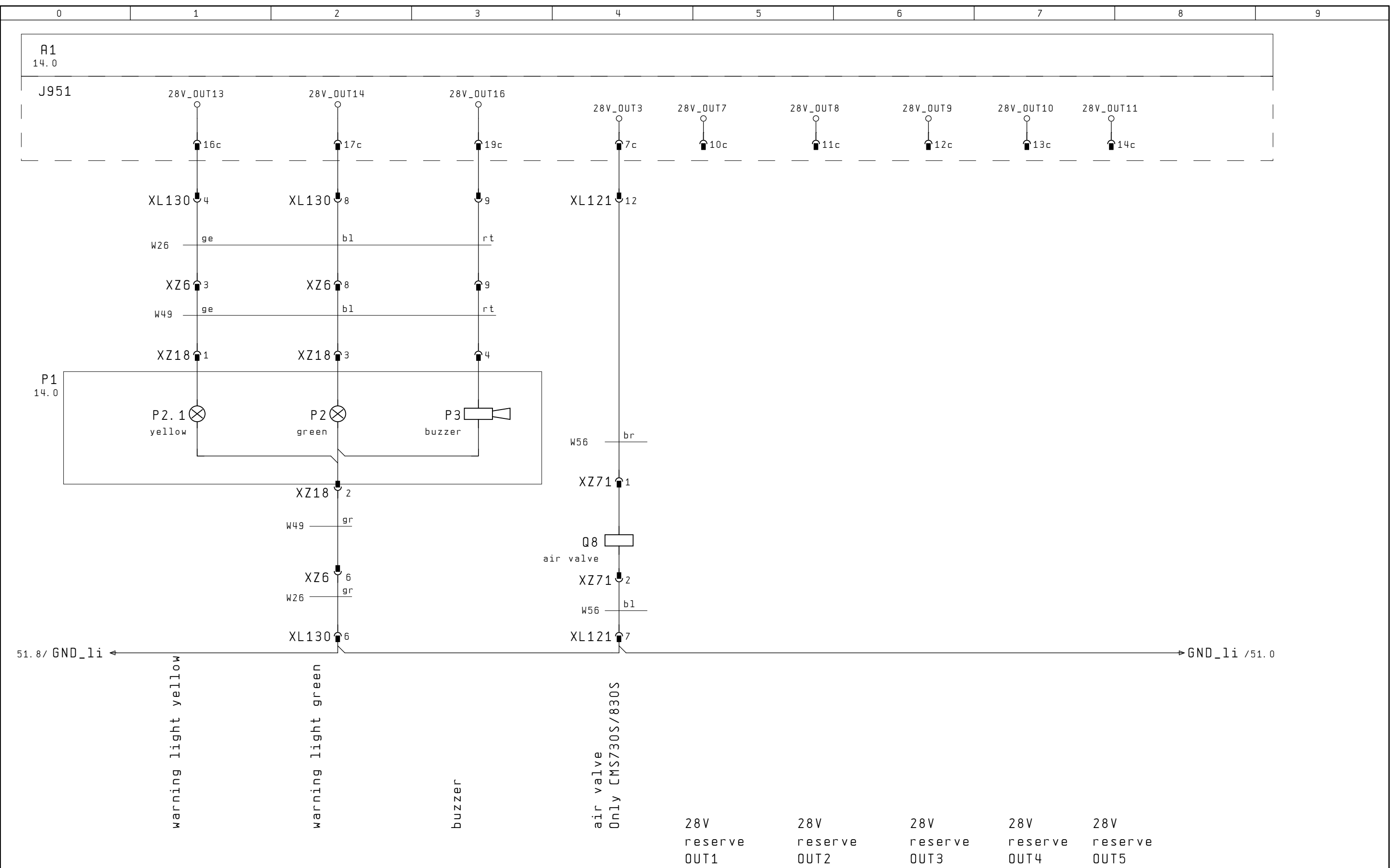




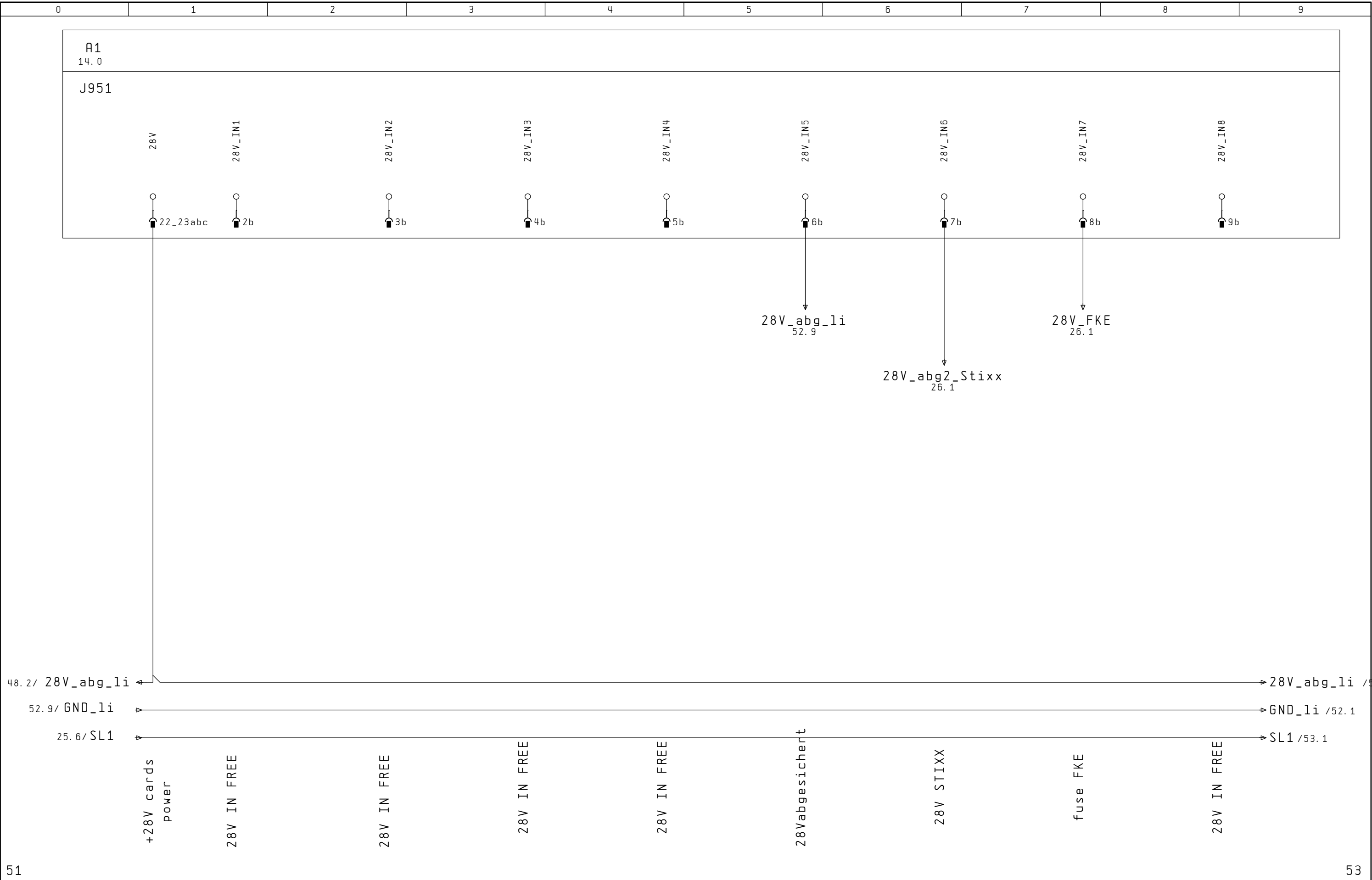


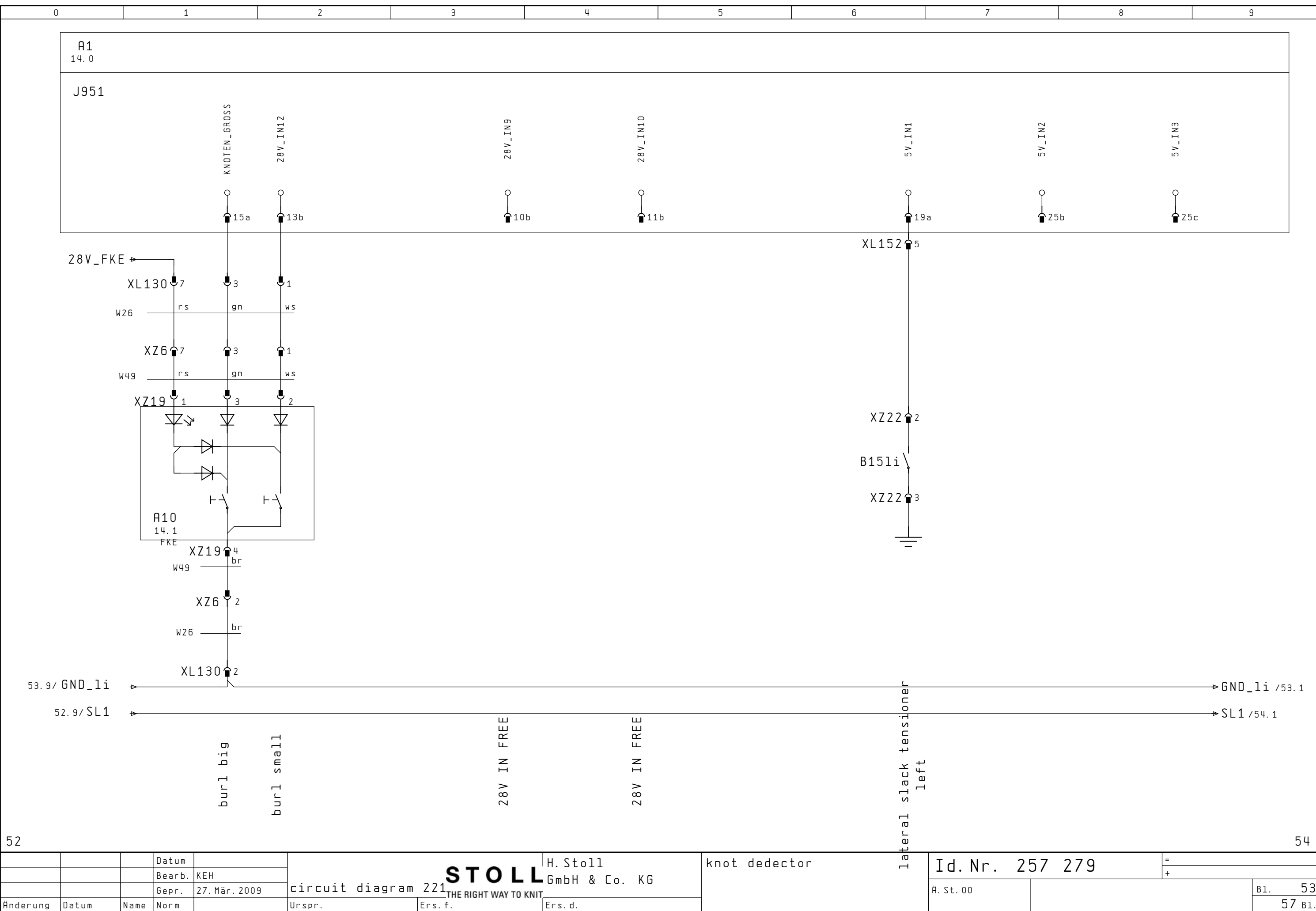


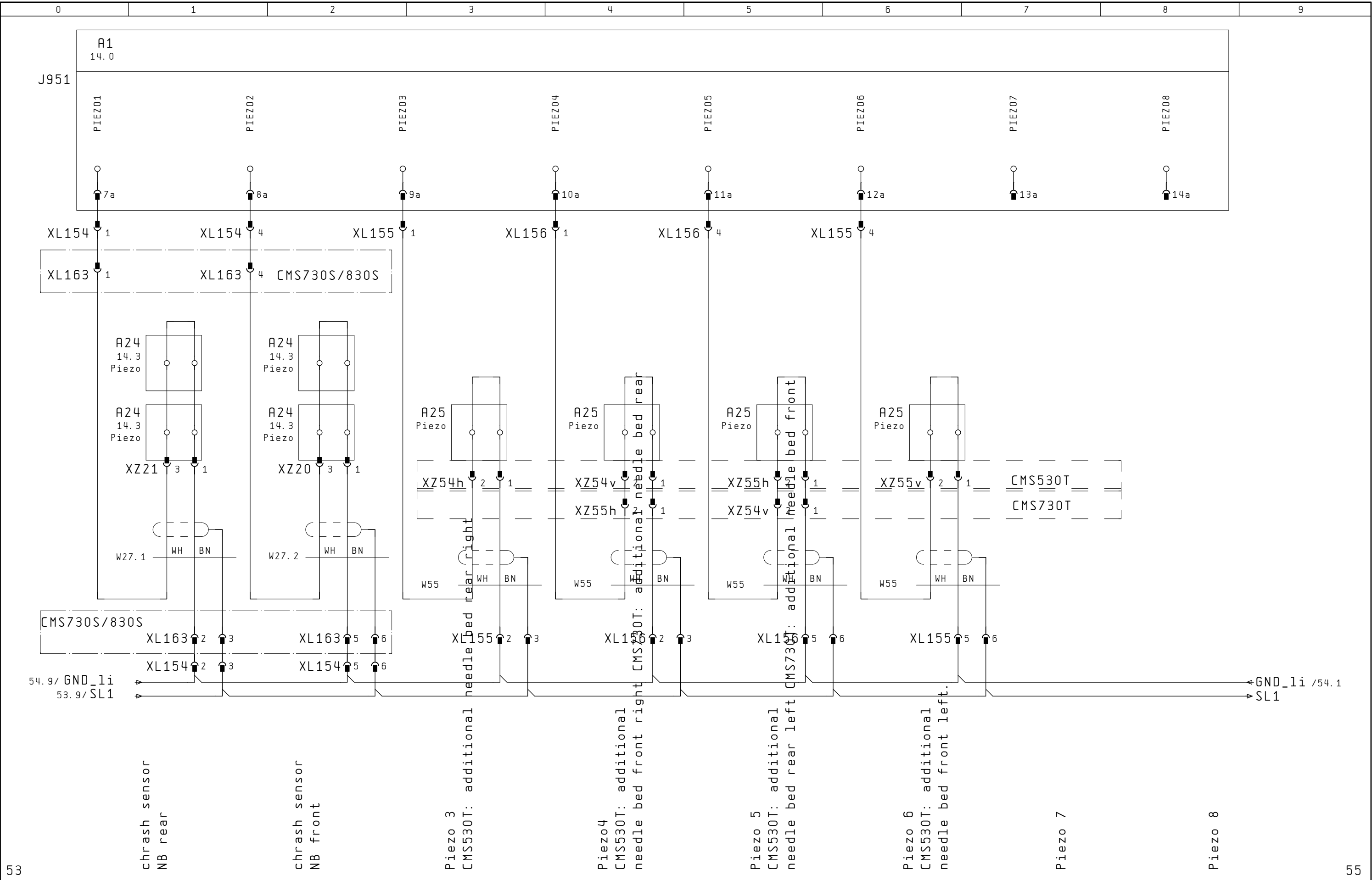




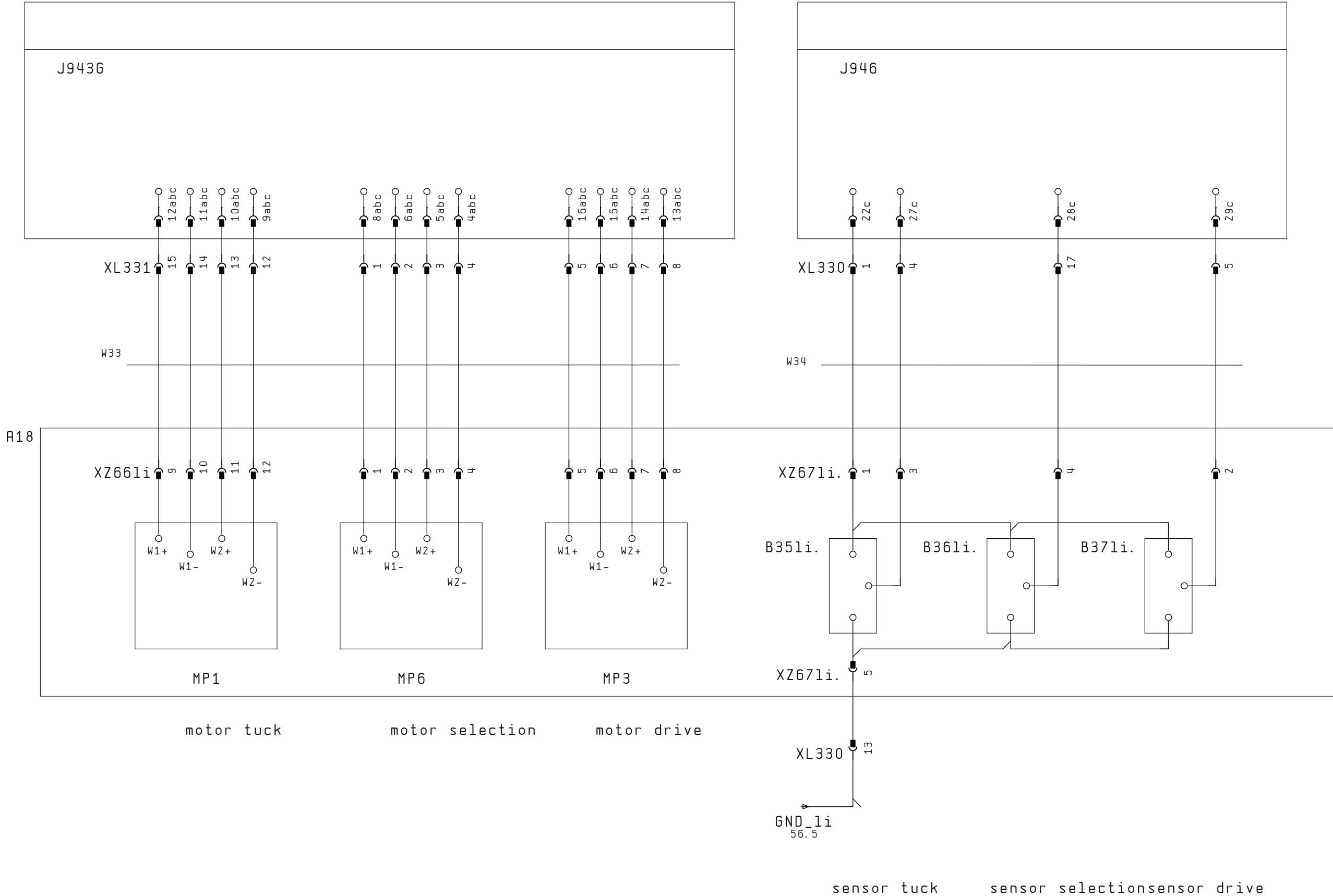
			Datum		circuit diagram 221	H. Stoll GmbH & Co. KG	outputs batterie card	Id. Nr. 257 279		=		
			Bearb.	KEH						+		
			Gepr.	27. Mär. 2009							B1.	51
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.	Ä. St. 00				57 B1.

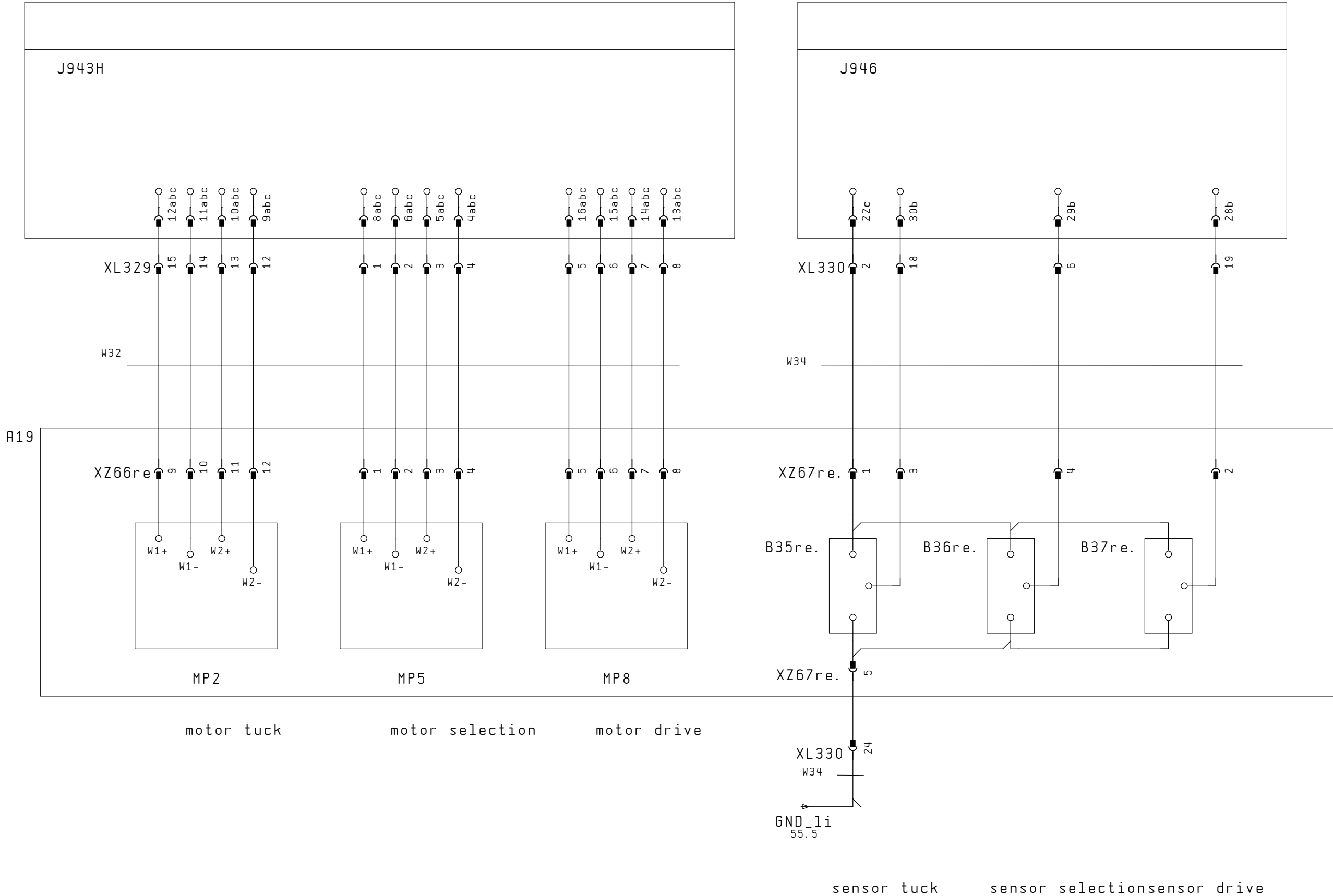


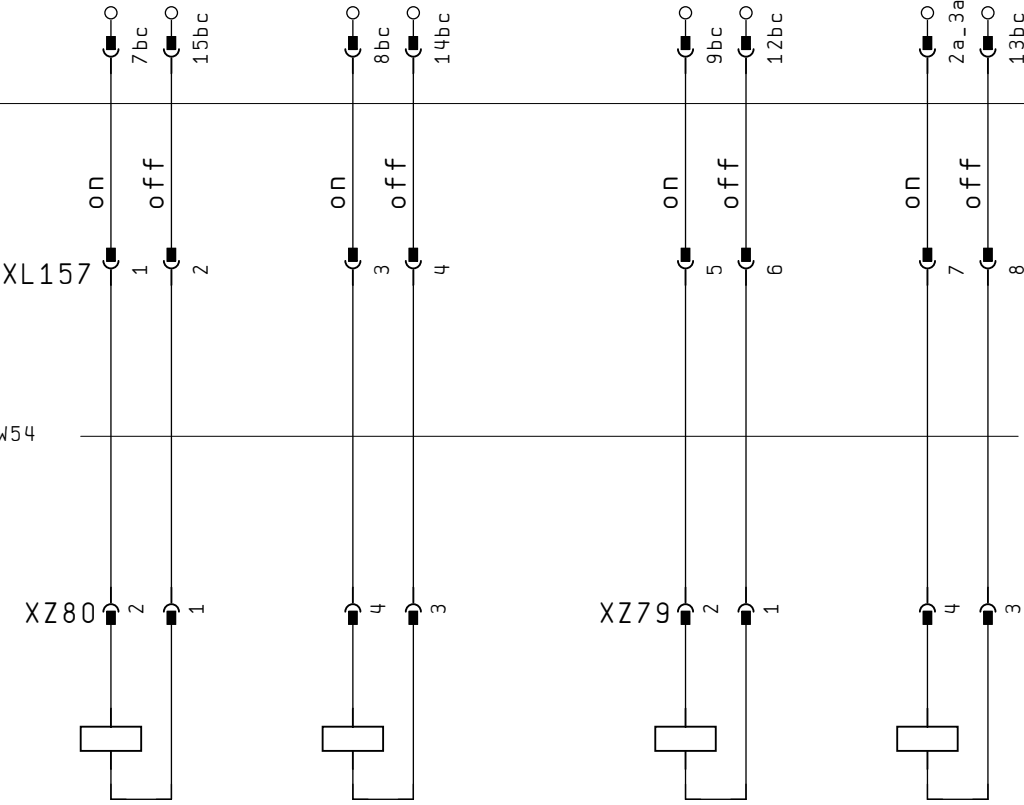
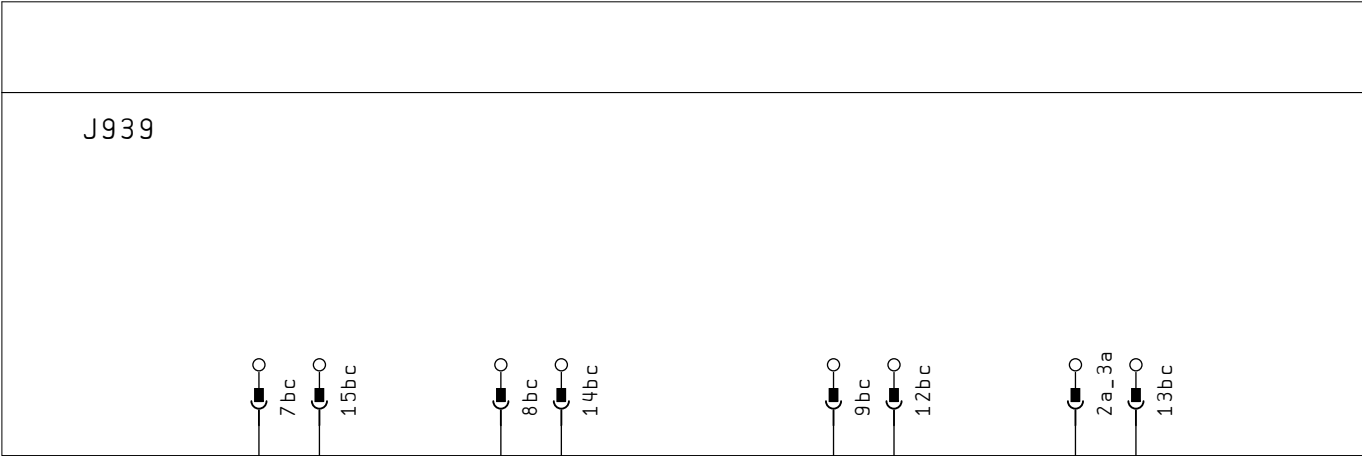




55







clamping magnet
right

lift magnet
right

clamping magnet
left

lift magnet
left

Computer OKC3, Ident. No.: 257279.00

Computer OKC3, Ident. No.: 257279.00