

Computer EKC1, Ident. No.: 274381.00

CMS	730T	830S	822	830C	933	803
Typ	591	664	665 666 673	662	775 776	660 661
Circuit diagram 225.00	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

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Spalte X: eine automatisch erzeugte Seite wurde manuell nachbearbeitet

ESSJ0100

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30	servo drive and racking		14.08.17	KEH	

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			Datum		H. Stoll	contents	Id. Nr. 274 381	=	
			Bearb.	KEH	AG & Co. KG			+	
			Gepr.	11.09.17	circuit diagram 225		A. St. 00		B1. 2
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.			57 Bl.

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 left control unit (cable outlets)
XT__	Plug connectors on the transformer
XZ__	Plug connectors on the consumer or switch gear

Circuit diagram 225

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Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 730T	Ident No. CMS 830S	Ident No. CMS 803 822 830C	Ident No. CMS 933
A1	Control unit on the left co.		269 483	259 486	269491 (803) 268891 (822) 269489 (830C)	268891
A2	Control unit on the left co.		2707490	268 889	268 889	268 889
A6	Battery plug-in unit		300 924	300 924	300 924	300 924
A7	Card Engaging		259 000	259 000	259 000	259 000
A8	Magnet switch shrouding covers outside		219 983	219 983	219 983	219 983
A10	Yarn control device		237 124	237 124	237 124	237 124
A11	Impulse giver main take-down / comb		300 744	300 744	300 744	300 487
A12	Impulse giver auxiliary take-down		in M5	in M5	in M5	217 462
A14	Magnet switch shrouding covers in the middle		220 159	220 159	220 159	220 159
A15	Racking – limit switch jack		229 396	229 396	229 396	229 396
A16	Racking – Limit switch jack add. bed front / right		232 300	----	----	----
A17	Racking – Limit switch jack add. bed rear /left		232 300	----	----	----
A18	Clamping/cutting on the left		214 257	214 257	----	----
A19	Clamping/cutting on the right		214 257	214 257	----	----
A20	Impulse giver pressure motor auxiliary take-down	in group. M10	x	x	x	x
A21	Main switch		250363	250363	250363	250363
A22	Central oil lubricating pump	Partly optional	235 068	235 068	235 068	235 068
A23re	Length measuring device	optional	257282	257282	257282	257282
A23li	Length measuring device	optional	257283	257283	257283	257283
A24	Shock stop motion (Piezo)		220 011	255315	220 011	220 011
A25	Shock stop motion (Piezo) additional bed		230520	----	----	----
A26	Slack tensioner left.		241345	241345	241345	241345
A27	Slack tensioner lrigt.		241346	241346	241346	241346
B_S1	Limit switch drive on the left		223 333	223 333	223 333	223 333
B_S2	Limit switch drive ont the right		223 333	223 333	223 333	223 333
B 4.1	Limit switch racking	in group A15	x	x		
B 4.2	Limit switch racking front / right additional bed.	in group A16b	----	----		
B 4.3	Limit switch racking rear / left additional bed	in group A17	----	----		
B 5.1	Switch Shrouding cover	in group A8	x	x		
B 5.2	Switch Shrouding cover	in group A8	x	x		

Circuit diagram 225

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Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 730T	Ident No. CMS 830S	Ident No. CMS 803 822 830C	Ident No. CMS 933
B 6.1	Switch Shrouding cover	in group A8	x	x	x	x
B 6.2	Switch Shrouding cover	in group A8	x	x	x	x
B10	Switch Protective hood on the right		223 350	223 350	223 350	223 350
B12	Switch Protective hood on the left		223 350	223 350	223 350	223 350
B_S13	Switch fabric sensor 1		----	x	----	----
B_S14	Switch take-down closed		----	----	-----	----
B15li	Slack tensioner on the left	in group A26	x	x	x	x
B15re	Slack tensioner on the right	in group A27	x	x	x	x
B_S16	Microswitch Winding plate		026 259	026 259	026 259	026 259
B_S16a	Microswitch front winding plate		222 063	222 063	222 063	222 063
B_S17	Switch fabric take-down on the left		----	----	----	008 829
B_S18	Switch fabric take-down on the right		----	----	----	008 829
B20	Comb reference at the top		231516	231516	231516	----
B21	Comb reference bottom		231520	231520	231520	----
B22	Comb Light barrier		243 355	243 355	243 355	----
B_S23	Switch Cover plate Comb		026 259	026 259	026 259	----
B_S24	Switch comb hook		026 259	026 259	026 259	----
B 27	Float switch central lubrication	in group A22	x	x	x	x
B 28	Oil pressure switch central lubrication	in group A22	x	x	x	x
B_S30	Switch auxiliary take-down open		026 259	026 259	026 259	----
B31	Thermoswitch fluff absorption turbine	in M 9	x	x	x	x
B32	Switch winding plate feed wheel		008 529	008 529	008 529	008 529
B33.1	Magnet switch shrouding covers in the middle	in group A14	x	x	x	x
B33.2	Magnet switch shrouding covers in the middle	in group A14	x	x	x	x
B34.1	Magnet switch shrouding covers in the middle	in group A14	x	x	x	x
B34.2	Magnet switch shrouding covers in the middle	in group A14	x	x	x	x
B35li	Sensor clamp./cutting tuck left	in group A18	x	x	----	----
B35re	Sensor clamp./cutting tuck right	in group A19	x	x	----	----
B36li	Sensor clamp./cutting selection left	in group A18	x	x	----	----
B36re	Sensor clamp./cutting selection right	in group A19	x	x	----	----
B37li	Sensor clamp./cutting drive left	in group A18	x	x	----	----
B37re	Sensor clamp./cutting drive right	in group A19	x	x	----	----
B38	Reference sensor racking rear	in group A15	x	x	x	x
B39	Reference sensor racking additional bed front / right	in group A16b	x	----	----	----
B40	Reference sensor racking additional bed rear / left	in group A17	x	----	----	----
B41li	Thermoswitch feed wheel left	in M 7	x	x	x	x

Circuit diagram 225

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STOLL

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Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 730T	Ident No. CMS 830S	Ident No. CMS 803 822 830C	Ident No. CMS 933
B41re	Thermoswitch feed wheel right	in M 7	x	x	x	x
B45	Switch take-down open		210 510	210 510	210 510	----
B_S46	Switch take-down closed		210 510	210 510	210 510	----
B48	Release signalling switch of main switch	in group A21	236 065	236 065	236 065	236 065
B_S49	Cover plate Comb depressed		026 259	026 259	026 259	----
E1	Machine lighting at the top		256648	256678	256678	212 580
E2	Machine lighting at the bottom		----	----	----	212 580
E3	Ventilator drive motor		213 722	213 722	213 722	213 722
E4	Ventilator control unit on the right (servo)	in group A2	229 059	229 059	229 059	229 059
E5	Ventilator power supply	in group A1/A2	239 305	239 305	239 305	239 305
F0	Protective motor switch	in group A21	235 115	235 115	235 115	235 115
F 1	Fabric take-down (WAZ)	3,15AT / 440V	025 261	025 261	025 261	025 261
F 2	Fabric take-down (WAZ)	3,15AT / 440V	025 261	025 261	025 261	025 261
F 3	Fabric take-down (WAZ)	3,15AT / 440V	025 261	025 261	025 261	025 261
F 4	Feed wheel	6,3AT / 440V	026809	026809	026809	026809
F 5	Feed wheel	6,3AT / 440V	026809	026809	026809	026809
F 6	Feed wheel	6,3AT / 440V	026809	026809	026809	026809
F 8	Servo	8AT / 440V	241866	241866	241866	241866
F 9	Servo	8AT / 440V	241866	241866	241866	241866
F10	Servo	8AT / 440V	241866	241866	241866	241866
F11	Power supply	6,3AT / 440V	026 809	---	026 809 (830C)	---
		10AT / 440V	---	025 258	025 258 (822)	025 258
F11a	Power supply	10AT / 440V	----	025 258	----	----
F12	Power supply	6,3AT / 440V	026 809	---	026 809 (830C)	---
		10AT / 440V	---	025 258	025 258 (822)	025 258
F12a	Power supply	10AT / 440V	----	025 258	----	----
F13	Power supply	6,3AT / 440V	026 809	---	026 809 (830C)	---
		10AT / 440V	---	025 258	025 258 (822)	025 258
F13a	Power supply	10AT / 440V	----	025 258	----	----

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Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 730T	Ident No. CMS 830S	Ident No. CMS 803 822 830C	Ident No. CMS 933
F16	Lighting	3,15AT / 440V	-	-	-	025 261
F17	Lighting	3,15AT / 440V	-	-	-	025 261
F20	Fluff absorption (FLENT)	4AT / 440V	263 981	263 981	263 981	263 981
F21	Fluff absorption (FLENT)	4AT / 440V	263 981	263 981	263 981	263 981
F22	Fluff absorption (FLENT)	4AT / 440V	263 981	263 981	263 981	263 981
F_Si1	28V protected (switch)	1,0 AF	008 748	008 748	008 748	008 748
F_Si2	28V Length measuring device	1,0 AF	008 748	008 748	008 748	008 748
F_Si3	Fuse of yarn control unit	1,0 AF	008 748	008 748	008 748	008 748
F_Si4	Battery charge	1,0 AF	008 748	008 748	008 748	008 748
F_Si5	Ballast servo (on relay card J953/J007)	1,6 AT /440V	236 229	236 229	236 229	236 229
F_Si6	Fuse of battery plug-in unit	12,5 ATT	232367	232367	232367	232367
P1	Warning light complete		240395	240395	240395	240395
P2	Warning light green	in group P1	x	x	x	x
P2.1	Warning light yellow	in group P1	x	x	x	x
P3	Signal transmitter (horn)	in group P1	x	x	x	x
K15A	Relay fluff absorption	in group T1	221 275	221 275	221 275	221 275
K16A	Relay fluff absorption	in group A22	x	x	x	x
K99A	Relay battery plug-in unit		in group A6	in group A6	in group A6	in group A6
K3M	Relay feed wheel on the right		in group J953	in group J953	in group J953	in group J953
K4M	Relay feed wheel on the left		in group J953	in group J953	in group J953	in group J953
K7M	Relay lighting	in group T1	-	-	-	221 275
M 1	Drive motor		240 740	240 740	240 740	242 377
M 2	Rear racking motor		241 454	241 454	241 454	241 454
M 3	Take-down motor		214 279	214 279	214 279	244 450
M 4	Comb motor		214 279	214 279	214 279	----
M 5	Auxiliary take-down motor		234 805	234 805	234 805	234 805
M 6	Comb hook motor		213 872	213 872	213 872	----
M 7	Friction feed wheels		219 800	219 800	219 800	219 800
M 9	Suction turbine fluff absorption (FLENT)		221 172	221 172	221 172	221 172
M 10	Pressure roller motor		234 805	234 805	234 805	234 805

Circuit diagram 225

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Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 730T	Ident No. CMS 830S	Ident No. CMS 803 822 830C	Ident No. CMS 933
M 11	Racking motor front / right additional bed		242 731	----	----	----
M 12	Racking motor rear / left additional bed		242 731	----	----	----
M 13	Open/close take-down motor		232 456	232 456	232 456	----
M 14	Central lubrication of motor pump	in group A22	x	x	x	x
MP 1	Clamp./Cutting motor tuck left	in group A18	x	x	----	----
MP 2	Clamp./Cutting motor tuck right	in group A19	x	x	----	----
MP 3	Clamp./Cutting motor drive left	in group A18	x	x	----	----
MP 5	Clamp./Cutting motor selection right	in group A19	x	x	----	----
MP 6	Clamp./Cutting motor selection left	in group A18	x	x	----	----
MP 8	Clamp./Cutting motor drive right	in group A19	x	x	----	----
Q1	Magnet machine execute	in group A21	235 116	235 116	235 116	235 116
Q2	Magnet Engaging rod		026 233	026 233	026 233	026 233
Q5	Brake motor take-down	in Motor M3	x	x	x	x
Q6	Brake motor comb	in Motor M4	x	x	x	----
Q7	Magnet take-down catch off	in Motor M3	----	----	----	x
Q8			----	207869	----	----
	Air valve					
T1	Main transformer		253 299	240 337	263 698 (822) 263 697 (830C)	253 300
T2	Series transformer		300 445	300 445	300 445	300 445
T3	Trafo SFE -Feed wheels	optional	x	x	x	x
W 1	Cable drive motor		240 295	240 295	240 295	242 513
W 2	Cable resolver drive		268 838	268 838	268 838	272 108
W 3	Cable racking motor		240 297	240 297	240 297	242 515
W 4	Cable resolver racking		268 837	268 837	268 837	272 109
W 5	Cable racking motor rear additional bed /left		243 544	----	----	----
W 6	Cable resolver racking rear / left additional bed		272 104	----	----	----
W 7	Cable racking motor front / right additional bed		243 547	----	----	----
W 8	Cable resolver racking additional bed front / right		272 105	----	----	----
W 9	Cable fabric take-down motor		240 291	240 291	240 291	242 521
W10	Cable pressure roller motor		240 592	240 592	240 592	242 508
W11	Cable comb motor		240 310	240 310	240 310	----
W12	Cable auxiliary take-down motor		240 590	242 226	242 226	242 525

Circuit diagram 225

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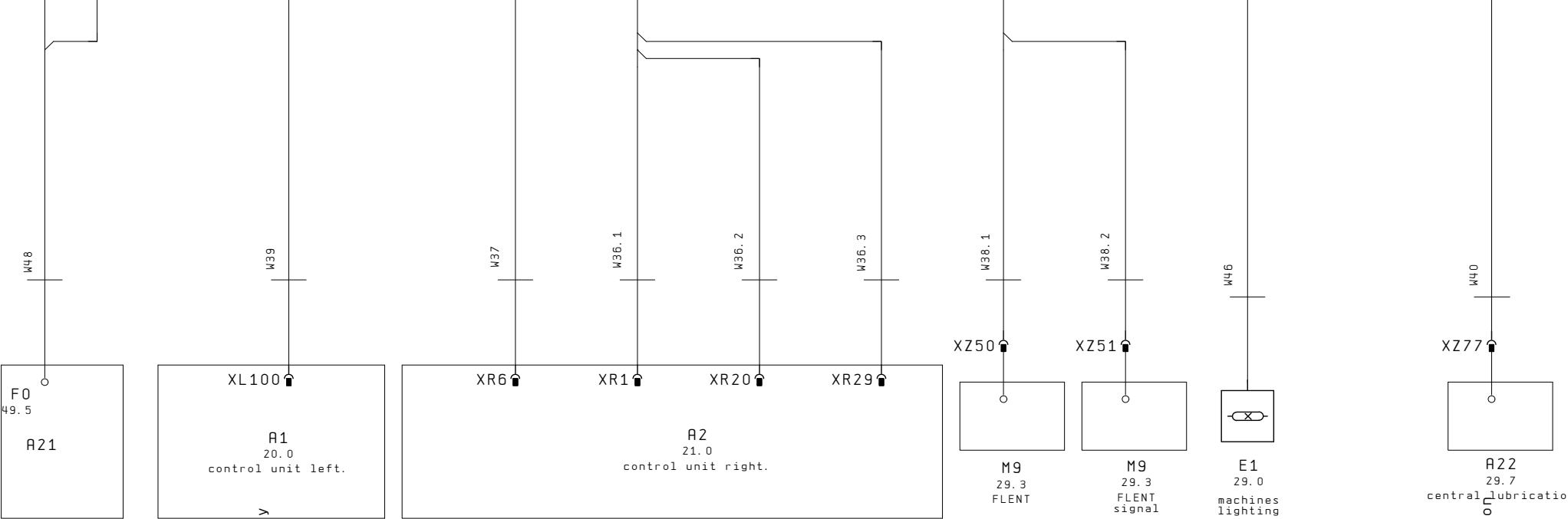
Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 730T	Ident No. CMS 830S	Ident No. CMS 803 822 830C	Ident No. CMS 933
W13	Cable comb hook motor		240 308	240 308	240 308	----
W14	Cable feed wheel on the left		240 465	240 466	240 466	242 524
W15	Cable feed wheel on the right		240 294	240 294	240 294	242 512
W16	Cable CAN		240 460	240 461	240 461	242 522
W17	Cable electro		240 462	240 463	240 463	242 523
W18	Cable open/close take-down motor		240 610	242 228	242 228	----
W19	Open/close cable switch of main takedown		240 611	242 229	242 229	242 520
W20	Cable switch main take-down		240 312	240 312	240 312	242 519
W22	Cable racking limit switch		240 292	240 292	240 292	242 510
W23	Rear / left cable limit switch racking mains supply		243 546	----	----	----
W24	Front / right cable limit switch racking mains supply		243 549	----	----	----
W25	Cable protective units on the right		253441	253441	253441	253615
W26	Cable yarn tensioner , warning light , horn		240 290	240 290	240 290	242 506
W27	Cable piezo sensor		240 518	255299	240 518	240 518
W28	Cable switch comb		240 311	240 311	240 311	----
W29	Cable switch auxiliary take-down		240 591	242 227	242 227	242 526
W30	Cable engaging		240 289	240 289	240 289	242 505
W31	Cable Length measuring device	optional	236 718	236 718	236 718	236 718
W32	Cable clamp./cutting drive on the right		240 613	255133	----	----
W33	Cable clamp./cutting drive on the left		240 612	240 612	----	----
W34	Cable Clamp./Cutting sensors		240 614	255134	----	----
W35	Cable connection lights		----	----	----	226 440
W36	Cable Power supply WAZ / feed wheel		263687	263688	263688	242 765
W37	Cable Power supply SERVO		240 503	240 504	240 504	242 766
W38	Cable Power supply FLUFF ABSORPTION		251242	251243	251243	251232
W39	Cable Power supply		236573	236573	240 505	242 767
W40	Cable power supply central lubrication	Partly optional	241 850	241 850	241 850	244 406
W41	Cable control central lubrication	Partly optional	238 704	238 704	238 704	238 704
W42	Cable switch pressure motor		240 593	240 593	240 593	242 509
W43	Cable switch Comb hook /fabric sensor		240 309	240 309	240 309	242 518
W44	Cable signals main switch		240 517	240 517	240 517	240 517
W45	Cable ventilator drive		240 293	240 293	240 293	242 511
W46	Cable Power supply Lighting		-	-	-	242 768
W47	Cable protective units left		253442	253442	253442	253616
W48	Cable mains supply transformer		250364	250364	250364	250364
W49	Cable mains supply yarn control device,warning light		239 749	239 749	239 749	239 749

Circuit diagram 225

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Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 730T	Ident No. CMS 830S	Ident No. CMS 803 822 830C	Ident No. CMS 933
W50	Cable DUT		262 139	262 139	262 139	262 139
W51	Cable Displayport		266 416	266 416	266 416	266 416
W54	Cable yarn guide system		----	255135	----	----
W55	Cabel Piezo additional needle bed		243 550	----	----	----
W56	Cable air valve	optional	----	242063	----	----
V1	Power line filter		219 133	219 133	219 133	219 133
V3	Motor interference suppressor fluff absorption		008 641	008 641	008 641	008 641

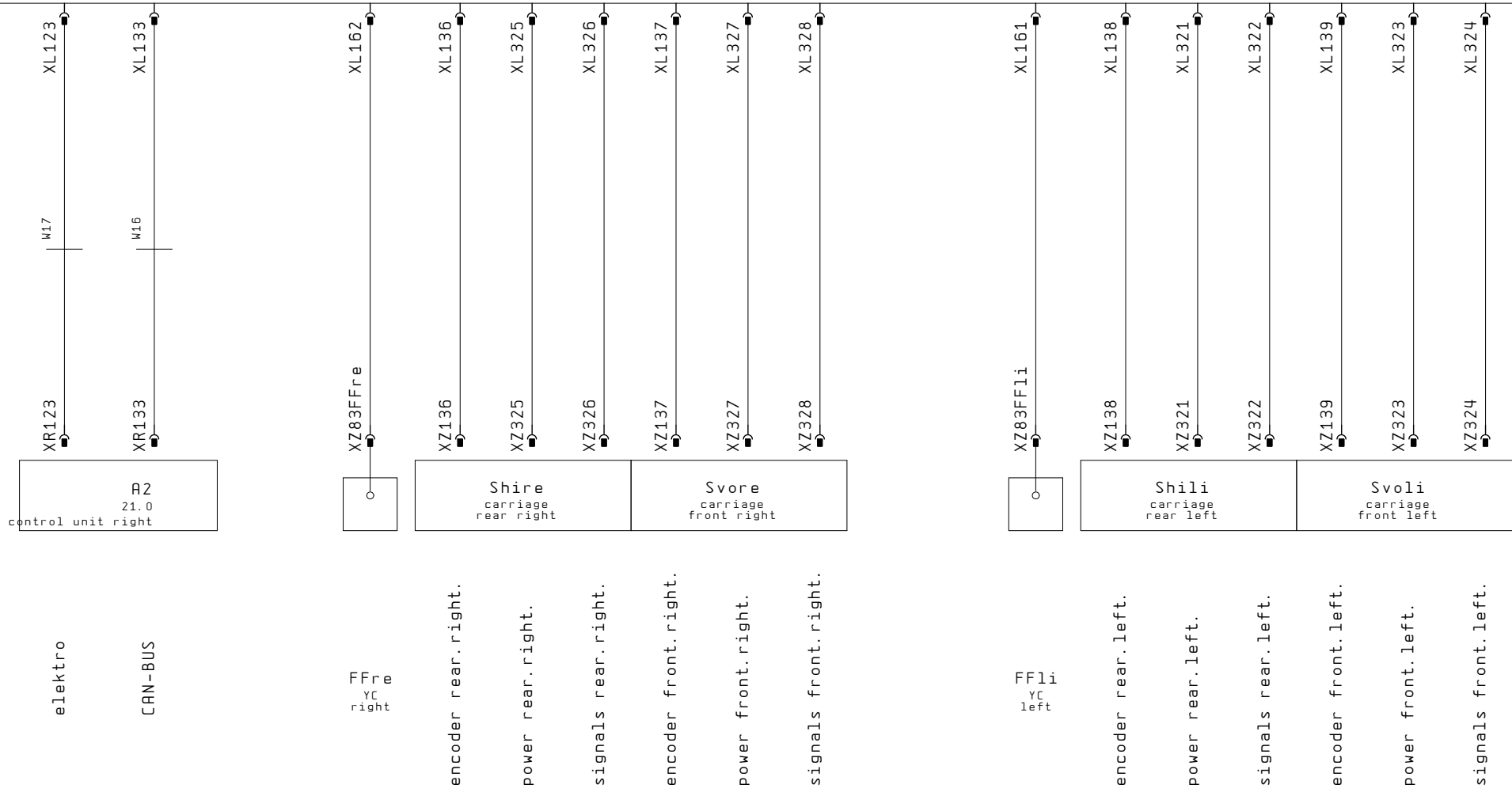
T1
24.1



main switch
 3x57V power supply
 3x240V servo
 3x190V CWAZ
 3x42V Posifeed
 signal FLENT
 motor FLENT
 thermo switch FLENT
 machines lighting
 supply lead central lubrication

				Datum				block diagram transformer		Id.Nr. 274 381			
				Bearb.	KEH			H.Stoll					
				Gepr.	11.09.17			AG & Co. KG					
				circuit diagram 225									
				Urspr.	Ers. f.			Ers. d.		A. St. 00		B1. 12	
Änderung				Datum	Name			Norm				57 B1	

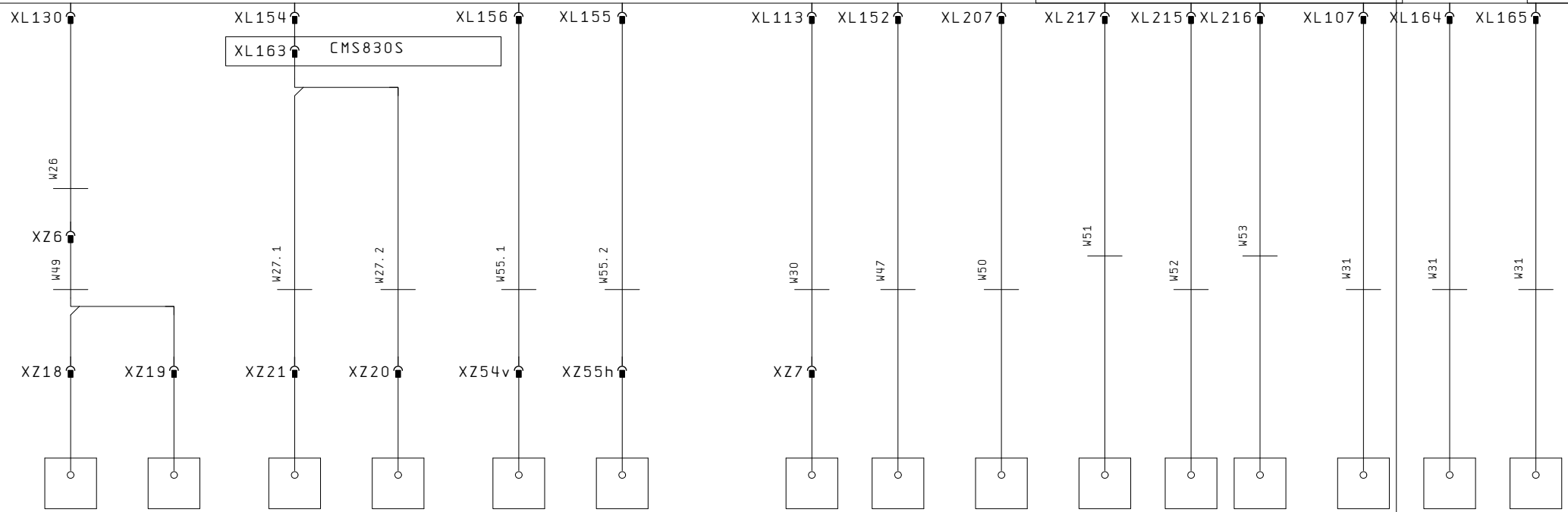
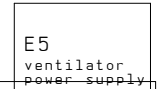
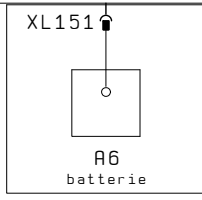
A1
20.0
control unit left.



Only tandem machines

			Datum		H. Stoll	block diagram	Id. Nr. 274 381		=
			Bearb.	KEH	AG & Co. KG	control unit left.			+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00		B1. 13
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.		57 B1.

A1
20.0
control unit left.



A10
53.1
FKE

A24
54.1
chrash sensors front

A24
54.1
Piezo additional needle bed rear/left 730T/530T

protectiv devices left.

A23
length measurement device STIXX

A23li
length measurement device left ASCON

P1
51.0
warning light

A24
54.1
chrash sensors rear

A24
54.1
Piezo additional needle bed front/right 730T/530T

A7
46.0
engaging

Display

Display LVDS

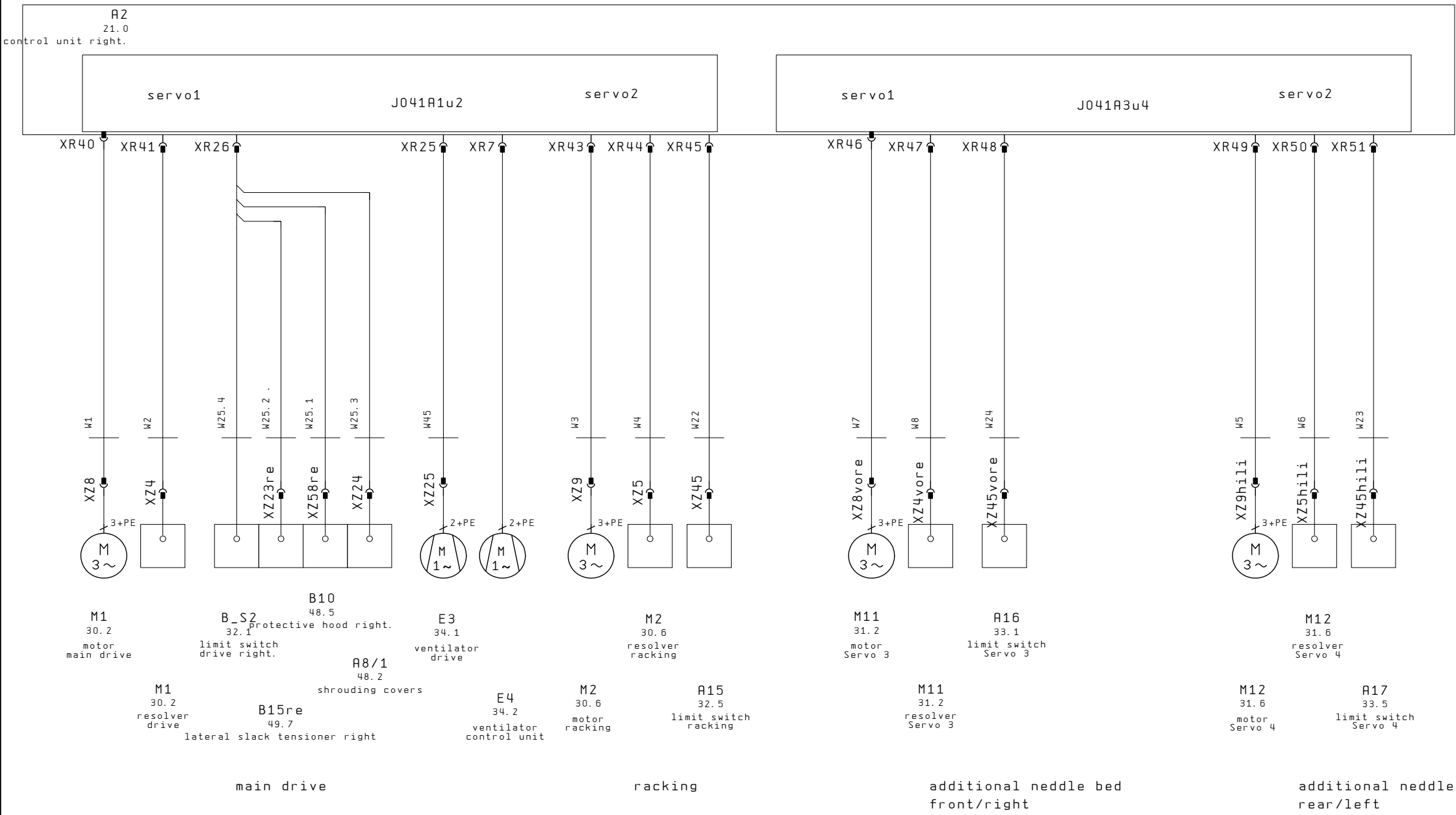
USB1

USB2

A23re

CMS830S

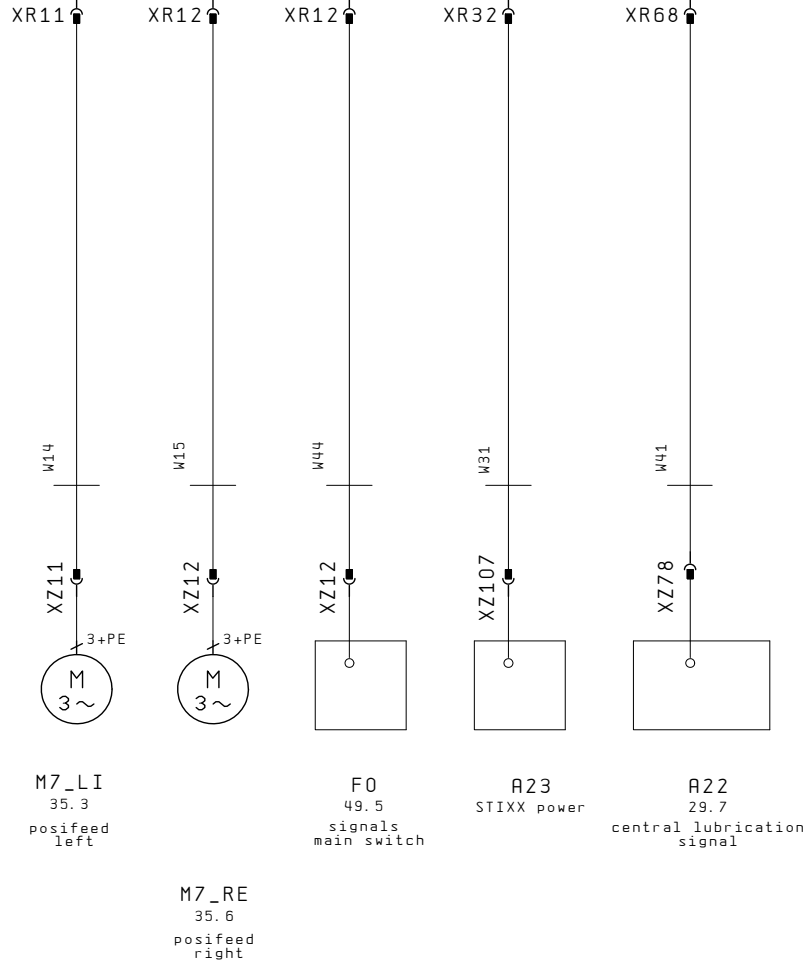
			Datum		H. Stoll	block diagram	Id. Nr. 274 381	=	
			Bearb.	KEH	AG & Co. KG	control unit left.		+	
			Gepr.	11.09.17	circuit diagram 225		A. St. 00		B1. 14
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.			57 B1.



		Datum		H. Stoll	block diagram	Id. Nr. 274 381	=
		Bearb.	KEH	AG & Co. KG	control unit		+
		Gepr.	11.09.17	circuit diagram 225	right servo drive and racking	A. St. 00	
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.	B1. 15
							57 B1.

A2
21.0
control unit right.

relay card J953

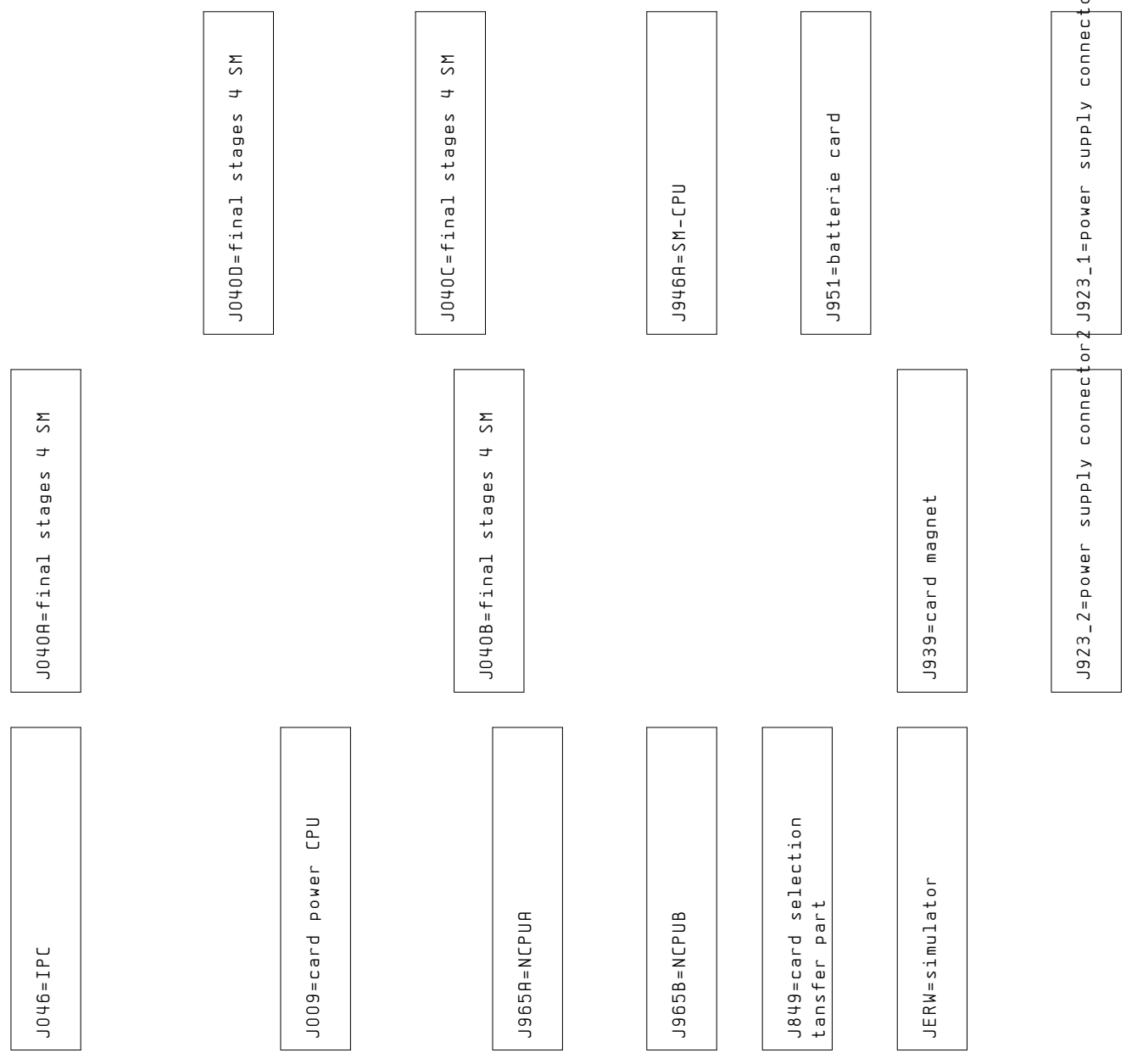


			Datum		H. Stoll	block diagram	Id. Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG	control unit right		+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 19
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.

A1
14.0

wiring system left

BUS left back side



- XL100=power supply supply lead 57V ~
- 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
- 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 (ASCONE)
- XL165=length measurement device left (ASCONE)
- XL215=USB 1
- XL216=data display
- 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

			Datum		H. Stoll	connector definition	Id. Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG	wiring system left		+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 20
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1

A2
19.0
wiring system right

back side



- XR1=power supply 190V, AC v. transformer
- XR6=power supply servo
- XR7=ventilator_1_control unit
- XR11=posifeed left
- XR12=posifeed right
- XR14=motor take down
- XR15=motor comb
- XR16=motor pressure roller auxiliary take down
- XR17=motor comb hook
- XR20=power supply 42/24VAC
- XR25=ventilator main drive motor
- XR26=shrouding covers, protective hoods, lateral slack
- XR28=signals main switch
- XR29=FLENT
- XR32=length measurement device_power
- XR35=motor auxiliary take down
- XR36=motor 4 (HAAB open/close)
- XR40=motor Servo1
- XR41=resolver Servo1
- XR42=limit switch Servo1
- XR43=motor Servo2
- XR44=resolver Servo2
- XR45=limit switch Servo2
- XR46=motor Servo3
- XR47=resolver Servo3
- XR48=limit switch Servo3
- XR49=motor Servo4
- XR50=resolver Servo4
- XR51=limit switch Servo4
- XR62=system connector_WAZ_Mot1
- XR63=system connector_WAZ_Mot2
- XR64=system connector_WAZ_Mot3
- XR65=system connector_WAZ_Mot4
- XR66=system connector_WAZ_Mot5
- XR67=system connector_WAZ_Mot6
- XR68=central lubrication
- XR123=elektro plug 1
- XR133=CAN

			Datum		H. Stoll	connector definition	Id. Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG	wiring system right		+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 21
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1

transformer

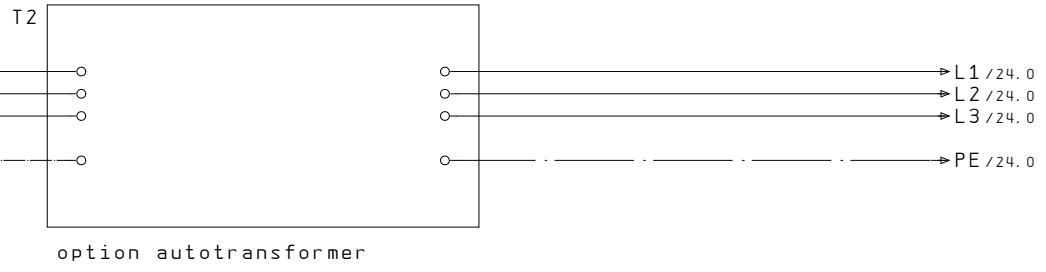
XT7=servo
 XT8=FLENT
 XT9=power supply/lighting
 XT10=signals lighting / FLENT
 XT11=central lubrication
 XT12=lighting

X1=main connection main switch
 X2=additional 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

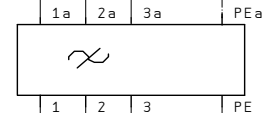
XZ30=encoder auxiliary take down
 XZ31=encoder Take down
 XZ32=encoder comb
 XZ34=brake /temperature comb
 XZ35=brake /temperature Take down
 XZ36=switch auxiliary take down closed
 XZ37=position comb top
 XZ38=position comb below
 XZ39=winding plate Take down rear.
 XZ58li=protective hood left
 XZ58re=protective hood right
 XZ59=winding plate Take down front.
 XZ45=limit switch racking
 XZ50=FLENT
 XZ51=FLENT signal
 XZ77=central lubrication
 XZ78=signal central lubrication

			Datum		H. Stoll	connector definition	Id. Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG	connectors external		+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 22
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.

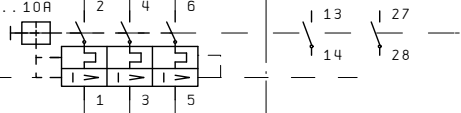


A21
main switch

-V1
line filter



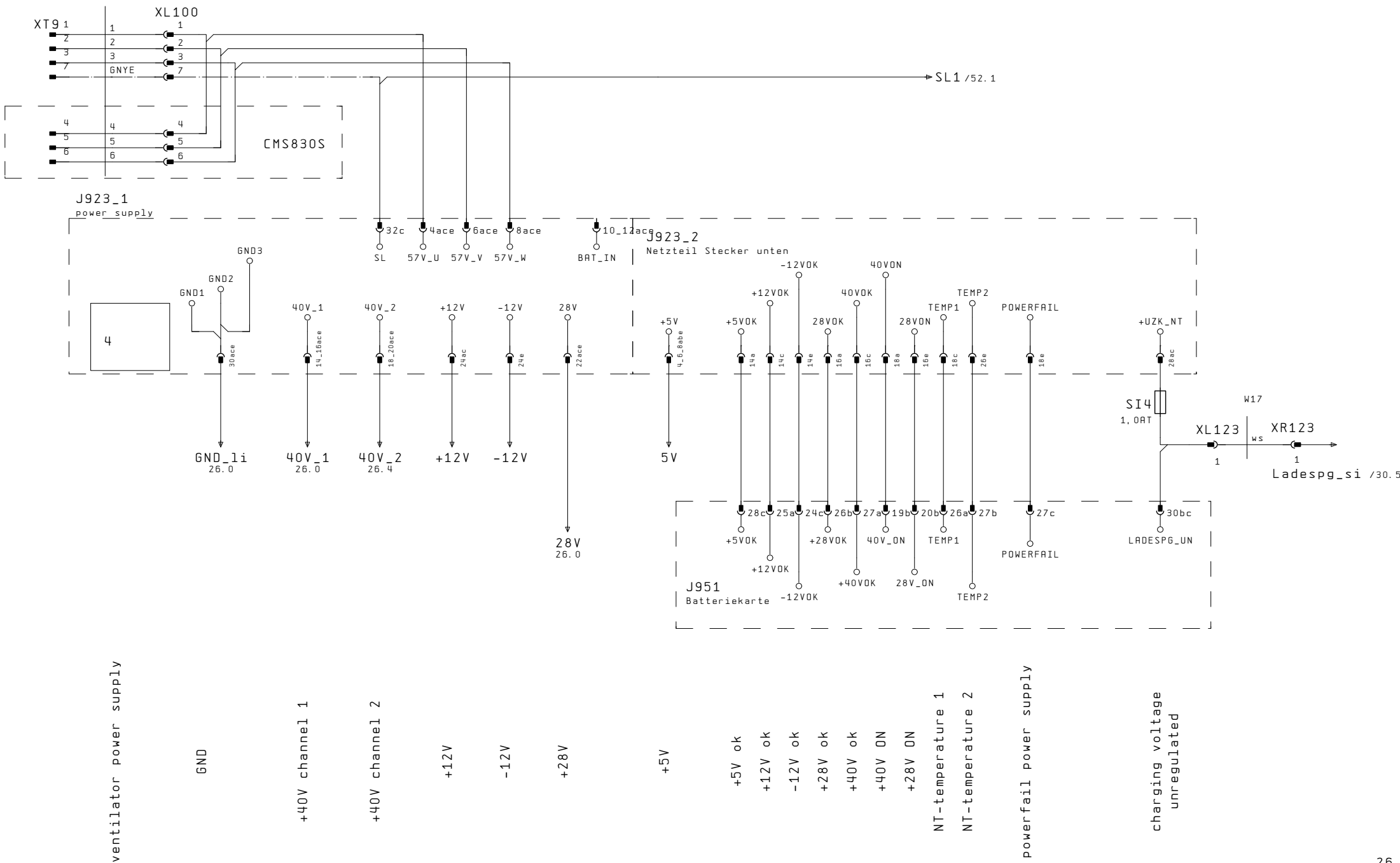
F0
6, 3...10A



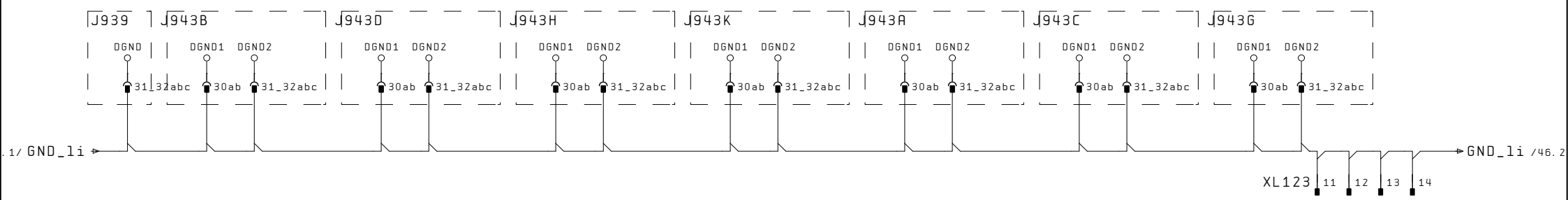
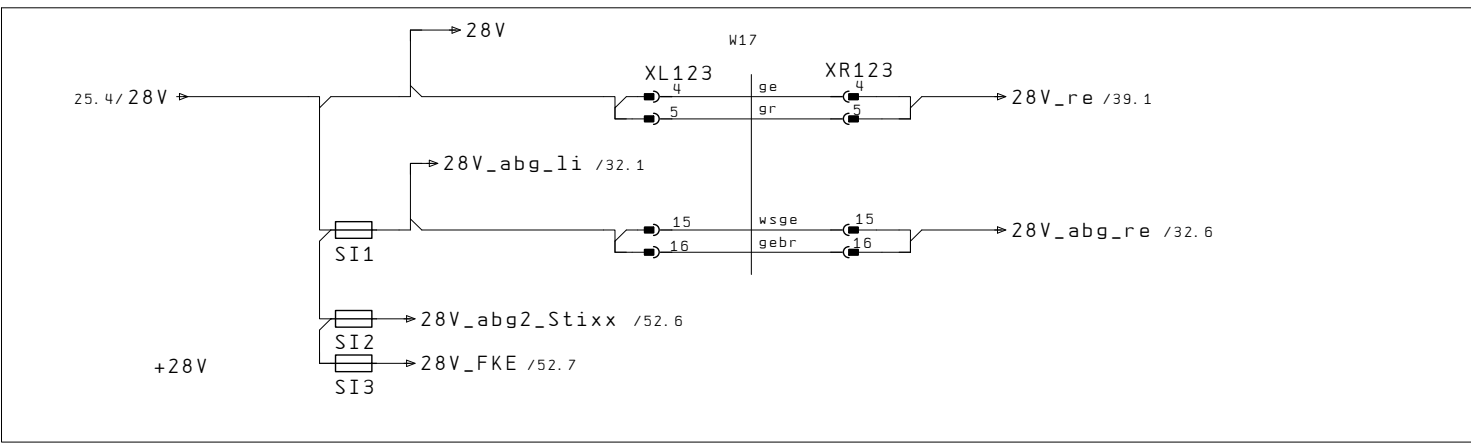
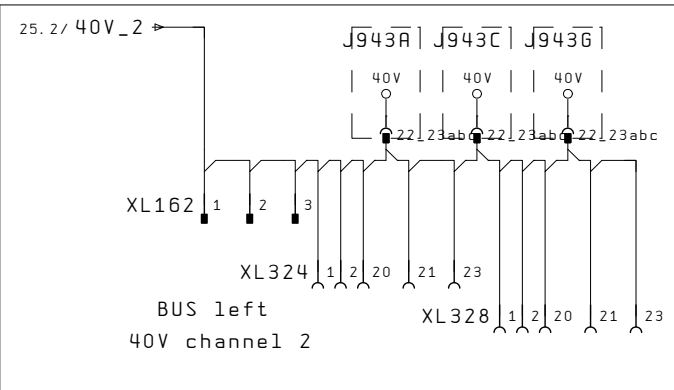
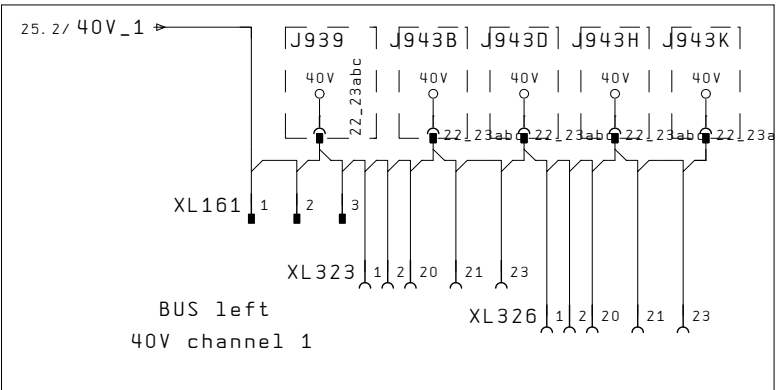
machine Ex

X1 OL1 OL2 OL3 ON OPE

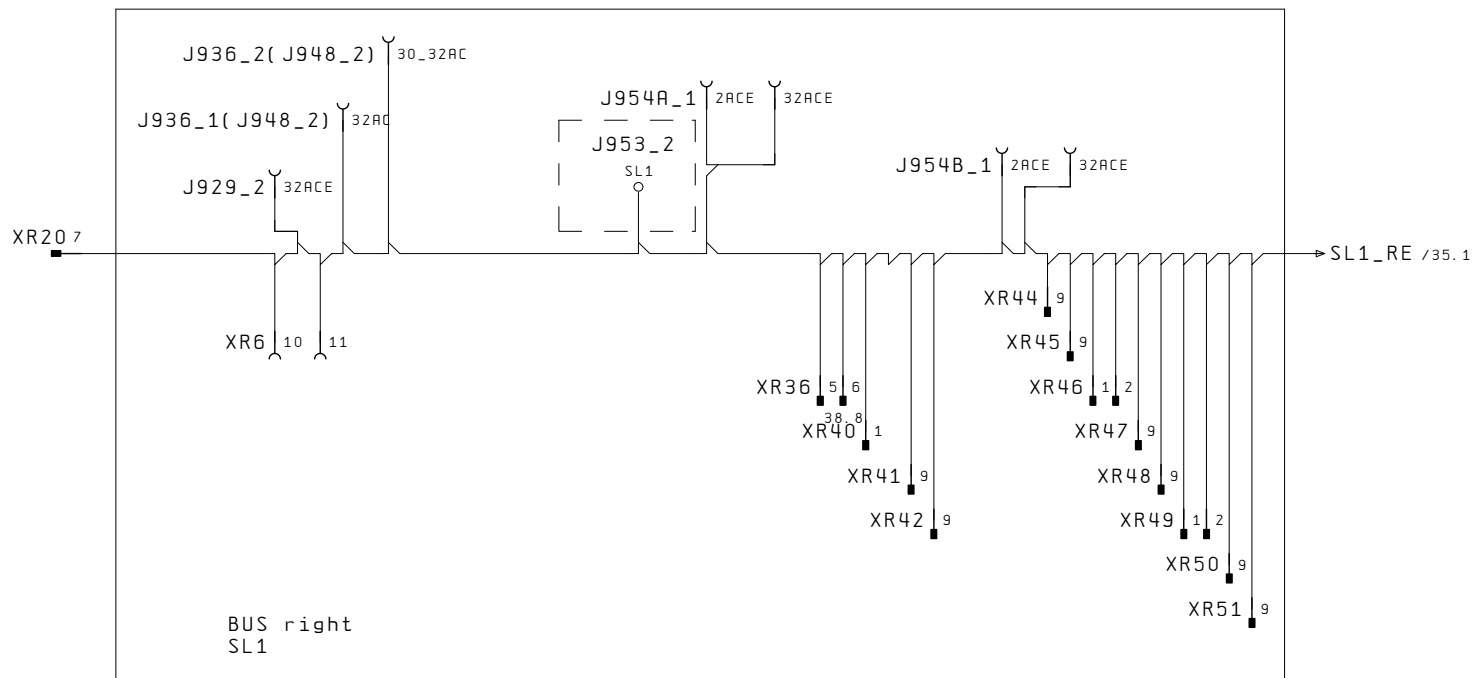
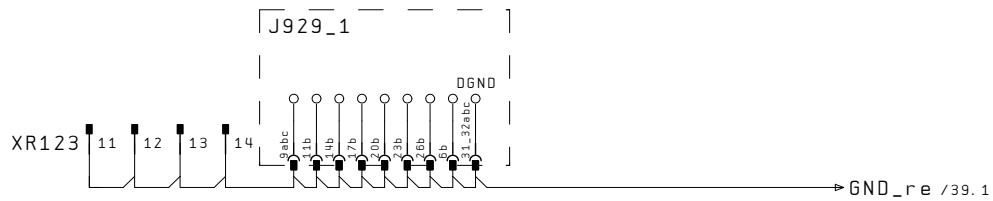
			Datum		H. Stoll	supply	Id. Nr. 274 381	=
			Bearb. KEH		AG & Co. KG			+
			Gepr. 11.09.17	circuit diagram 225			A. St. 00	B1. 23
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.



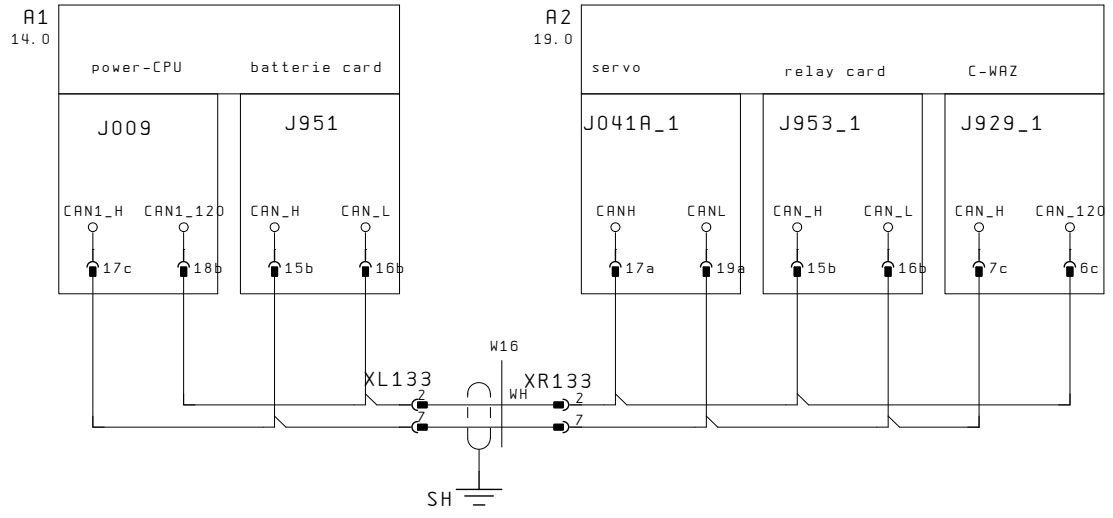
			Datum		H. Stoll	power supply	Id. Nr. 274 381		
			Bearb.	KEH	AG & Co. KG		A. St. 00		B1. 25
			Gepr.	11.09.17	circuit diagram 225				57 B1.
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.		



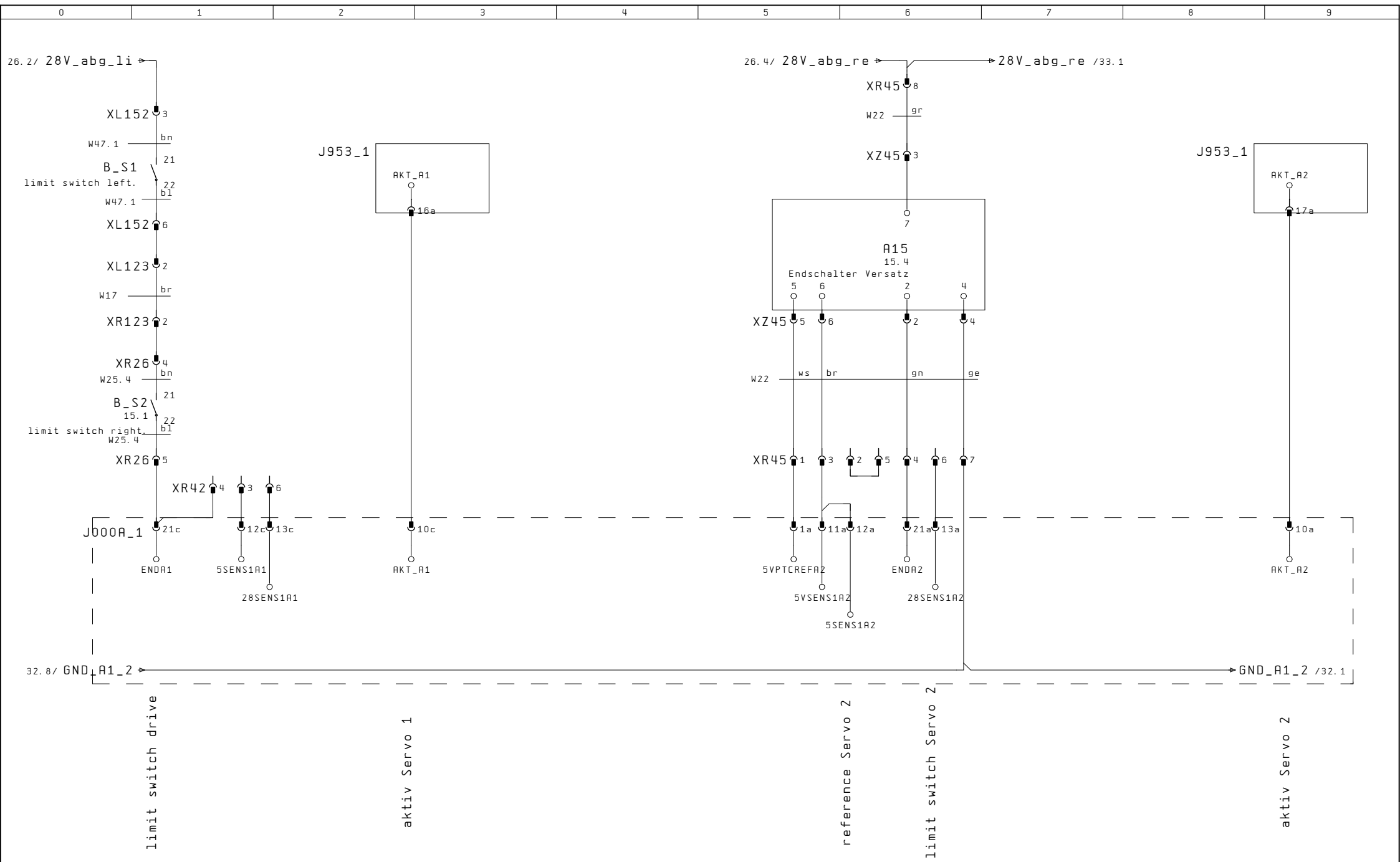
Datum		H. Stoll		power allocation		Id. Nr. 274 381			
Bearb. KEH		AG & Co. KG		wiring system left					
Gepr. 11.09.17		circuit diagram 225				A. St. 00		B1. 26	
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.	



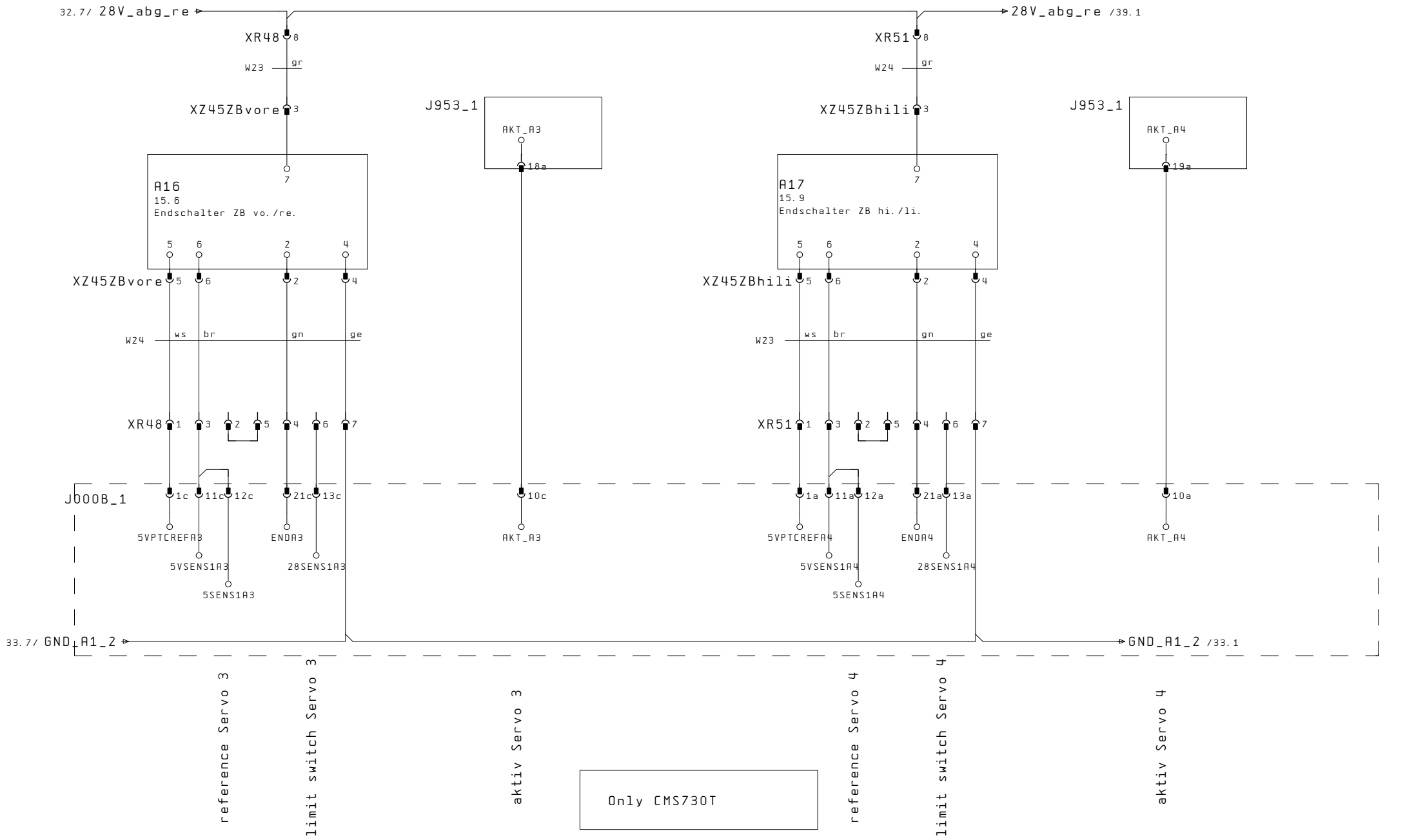
			Datum		H. Stoll	power allocation	Id. Nr. 274 381		=
			Bearb.	KEH	AG & Co. KG	wiring system right			+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00		B1. 27
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.			57 B1.



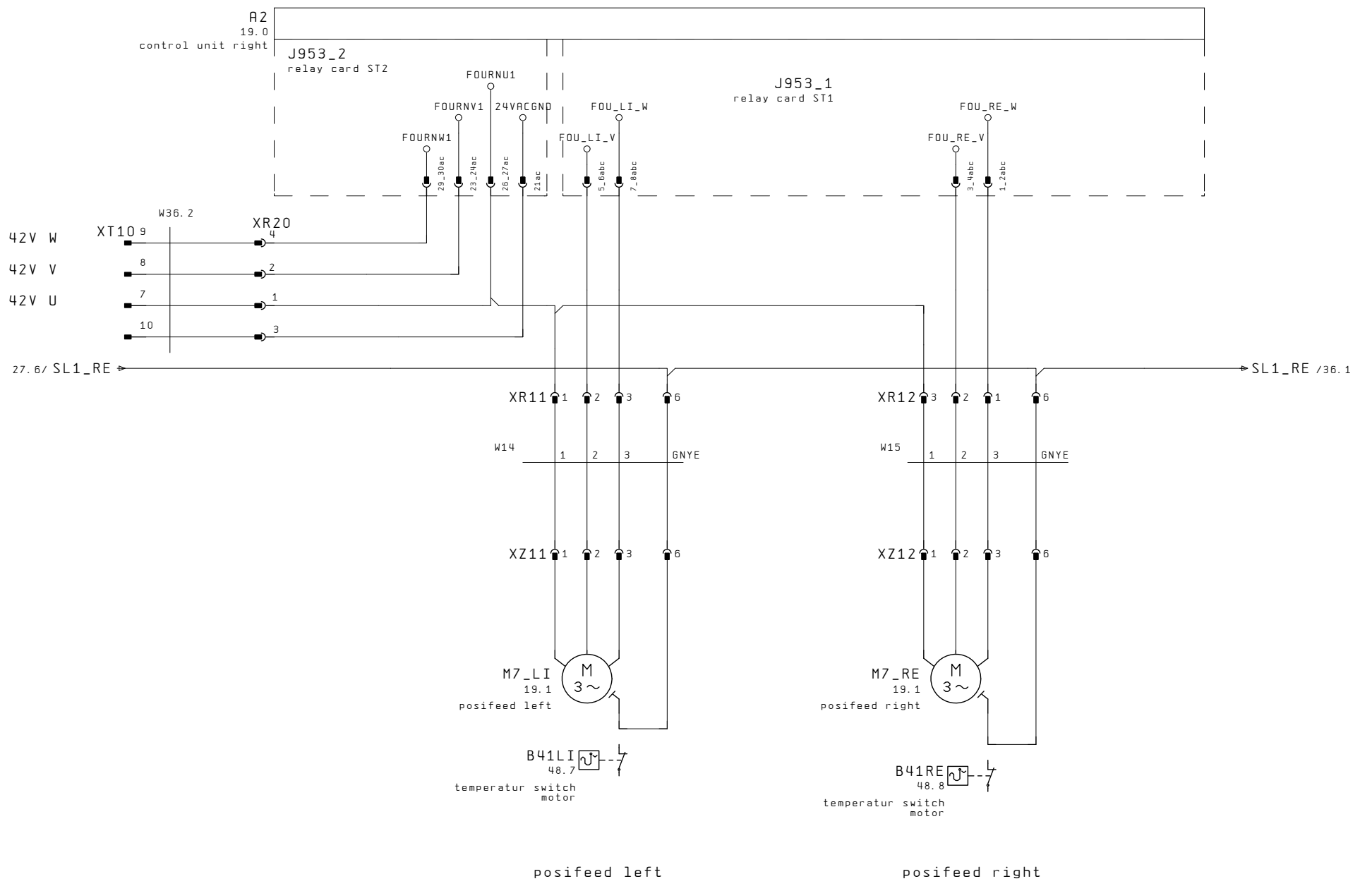
			Datum		H. Stoll	CAN-BUS	Id. Nr. 274 381	=
			Bearb. KEH		AG & Co. KG			
			Gepr. 11.09.17	circuit diagram 225			A. St. 00	B1. 28
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.



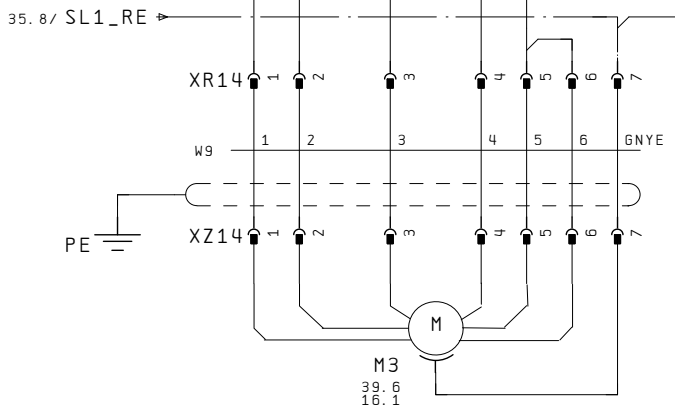
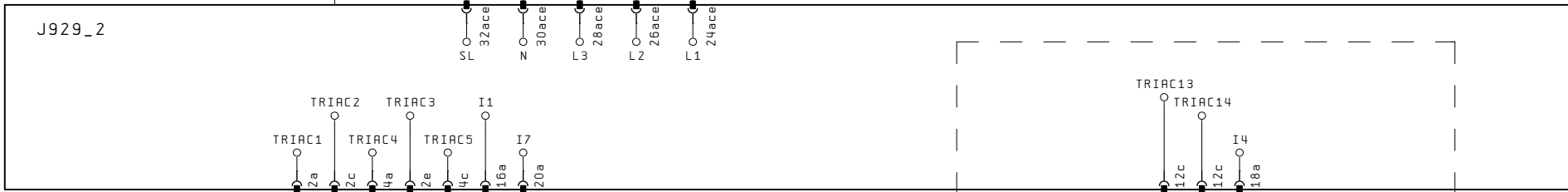
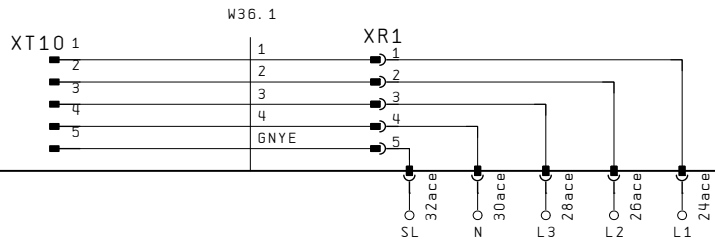
			Datum		H. Stoll	inputs servo HA+V	Id. Nr. 274 381	=	
			Bearb.	KEH	AG & Co. KG		A. St. 00	+	
			Gepr.	11.09.17	circuit diagram 225				B1. 32
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.			57 B1



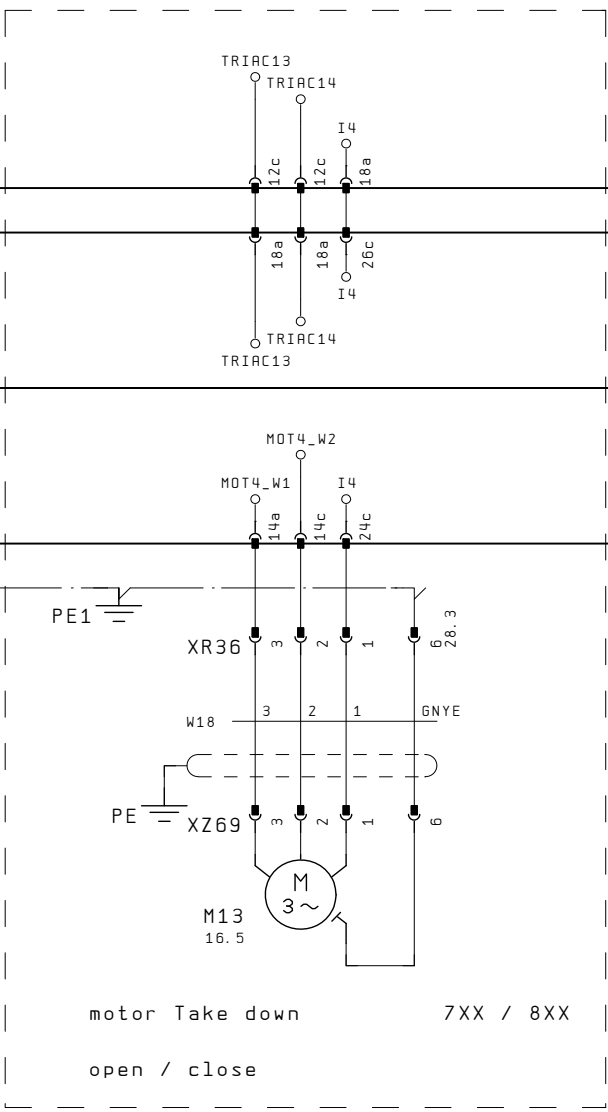
			Datum		H. Stoll	inputs servos	Id. Nr. 274 381		=
			Bearb.	KEH	AG & Co. KG	additional neddle beds			+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00		B1. 33
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.		57 B1



			Datum		H. Stoll	posifeeds	Id. Nr. 274 381	=
			Bearb. KEH	AG & Co. KG				
			Gepr. 11.09.17	circuit diagram 225			A. St. 00	B1. 35
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.

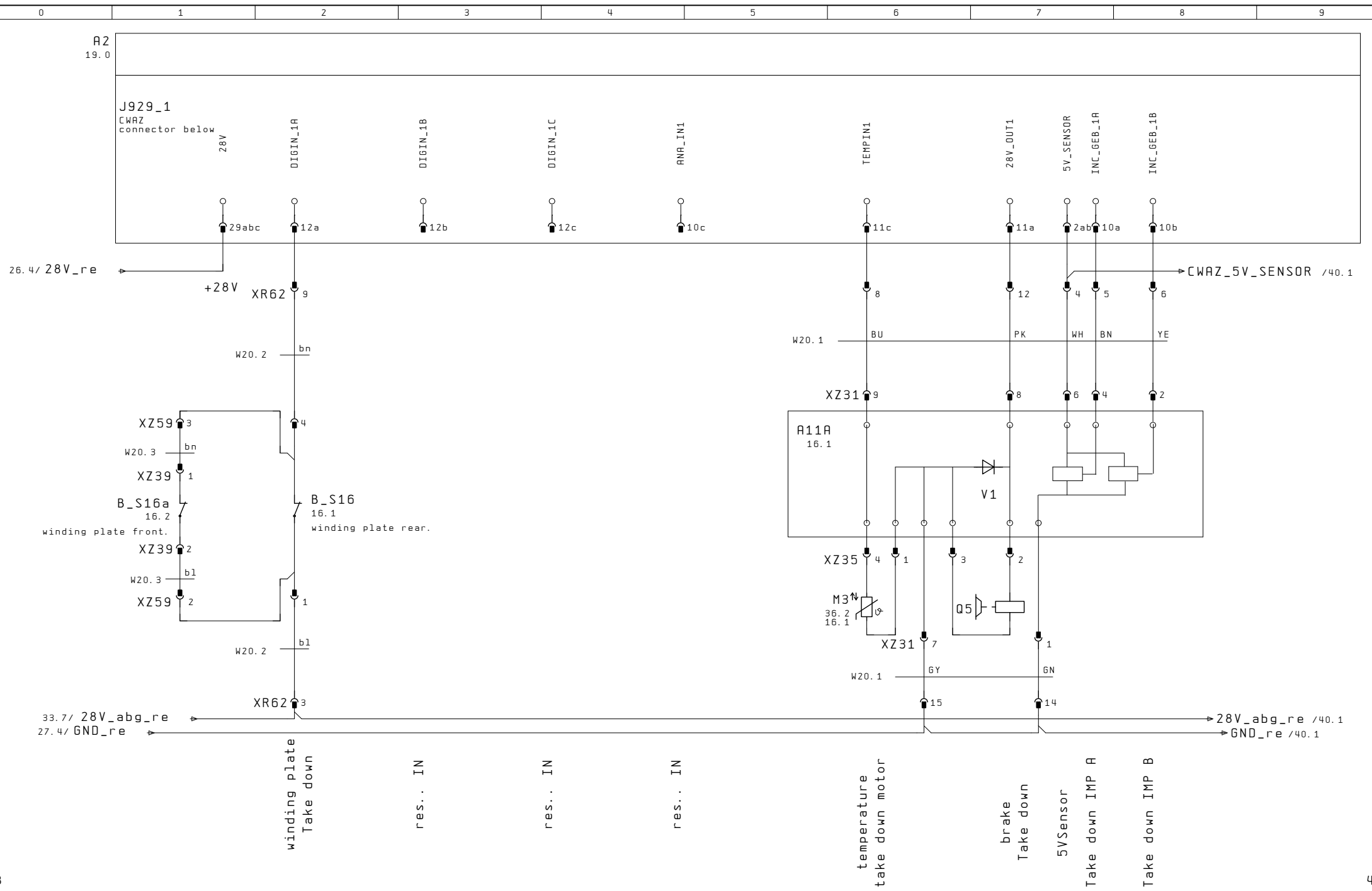


motor main take down

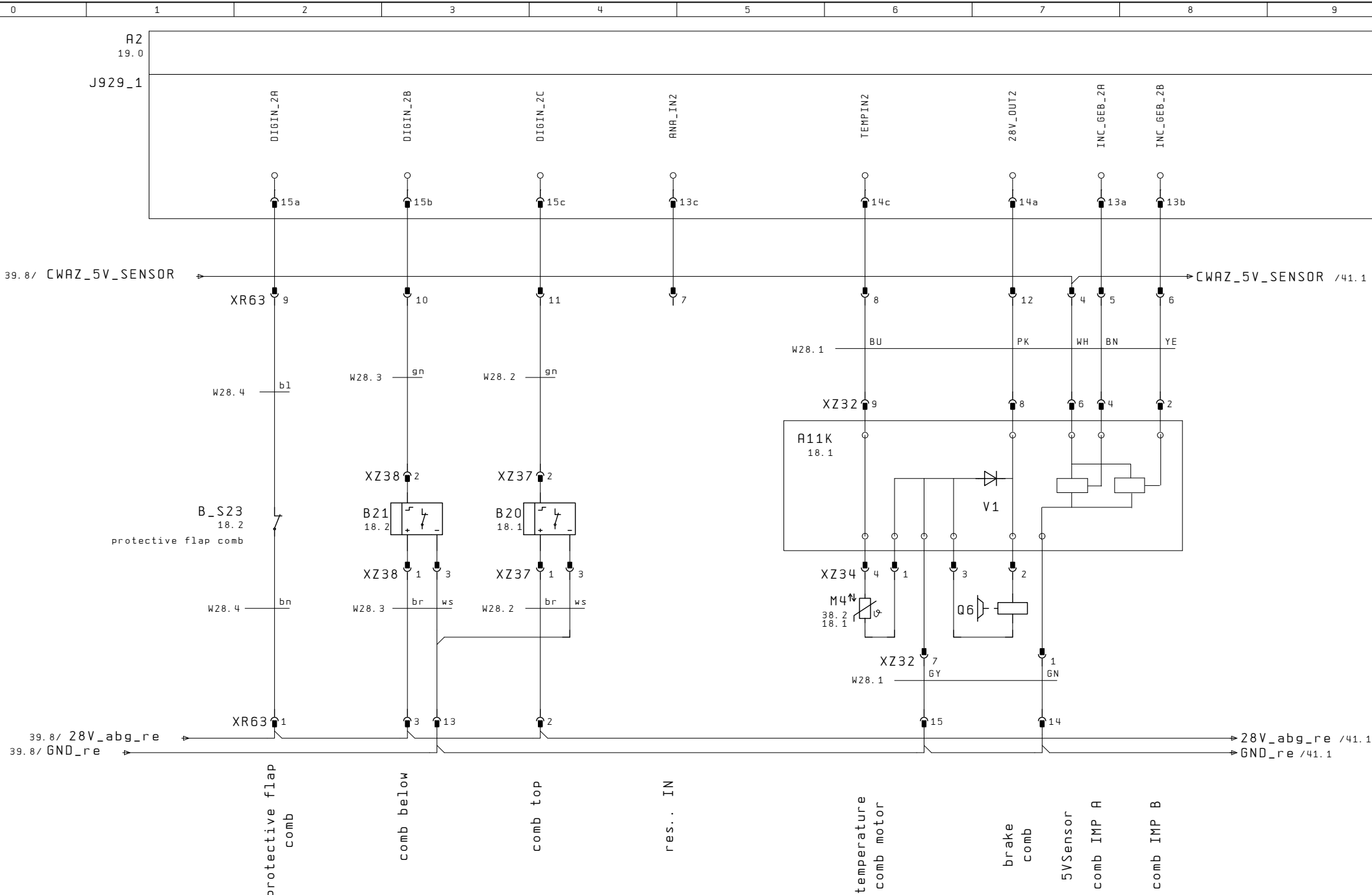


motor Take down 7XX / 8XX
open / close

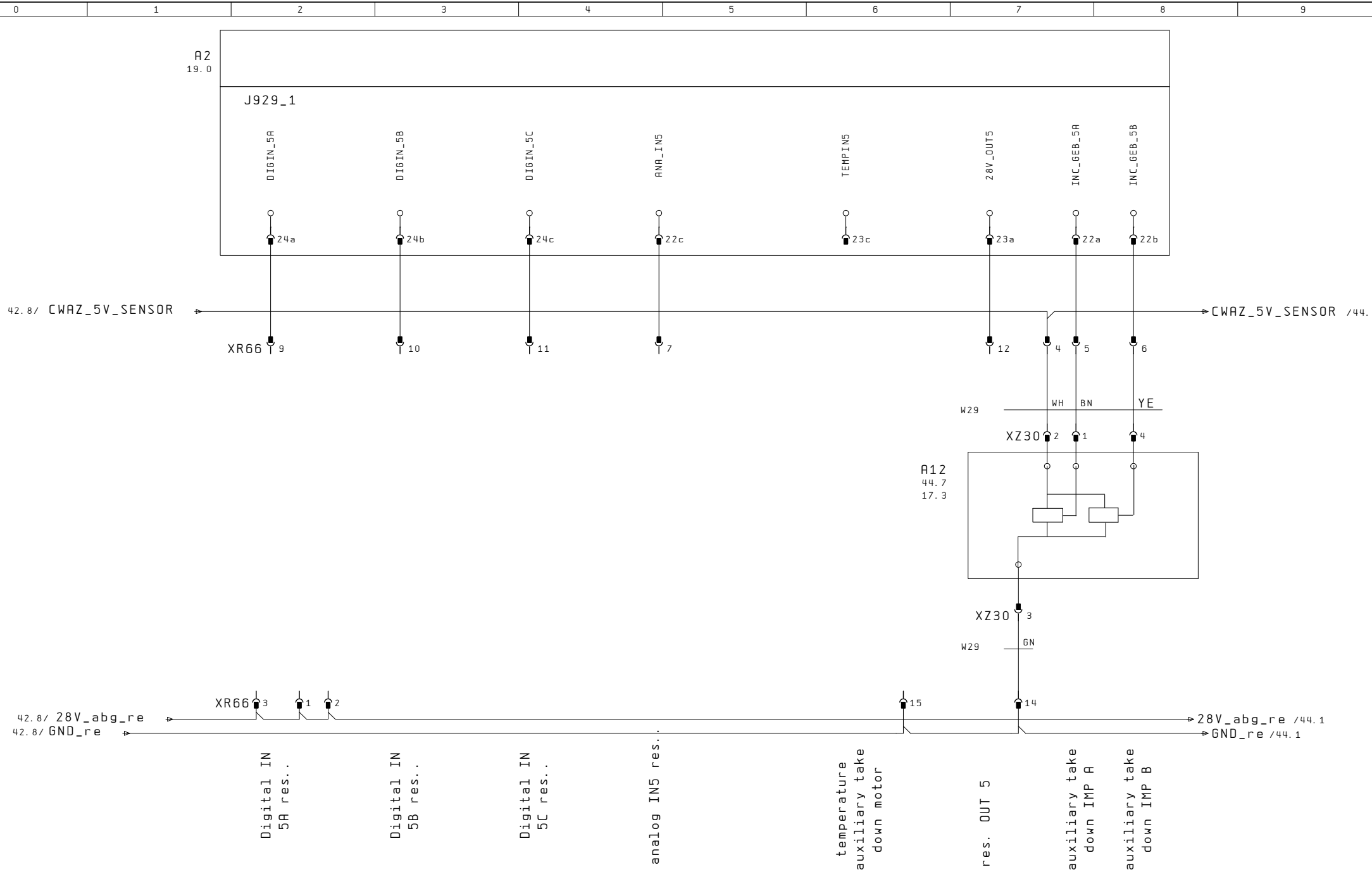
				Datum			H. Stoll	main take down		Id. Nr. 274 381			
				Bearb.	KEH		AG & Co. KG			A. St. 00			
				Gepr.	11.09.17		circuit diagram 225					B1. 36	
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.					57 B1.		



				Datum			signals Take down XR62		Id. Nr. 274 381		=
				Bearb.	KEH	H. Stoll		A. St. 00		B1. 39	
				Gepr.	11.09.17	AG & Co. KG				57 B1	
				circuit diagram 225		Ers. d.					
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.					



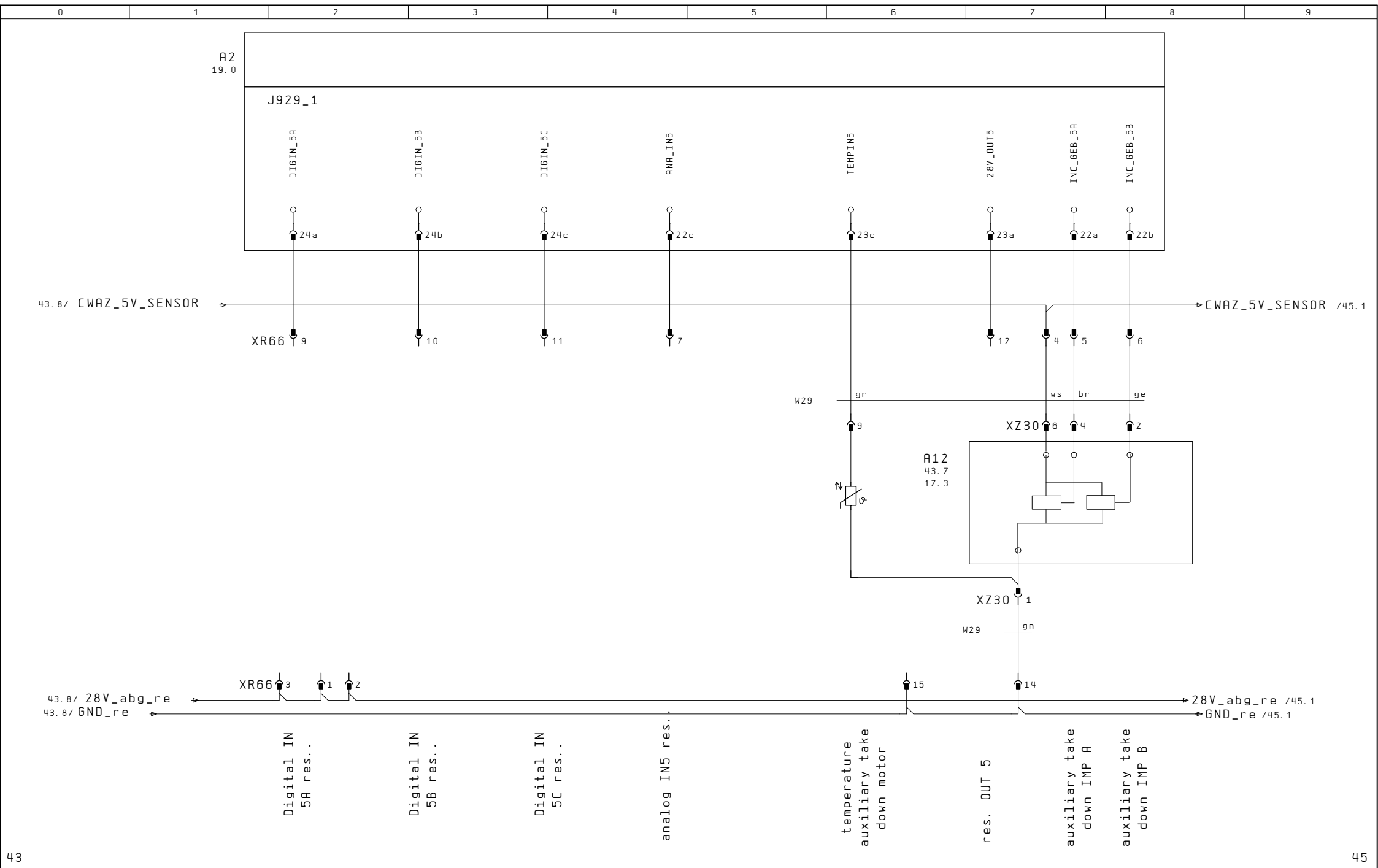
			Datum		H. Stoll	signals comb XR63	Id. Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG			+
			Gepr.	11.09.17	circuit diagram 225	5XX / 7XX / 8XX	A. St. 00	B1. 40
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1



42

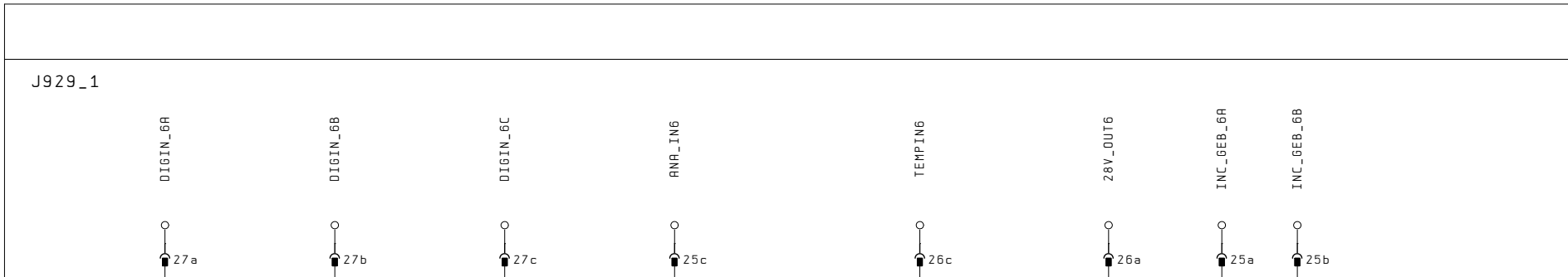
44

			Datum		H. Stoll	signals auxiliary take	Id. Nr. 274 381		=
			Bearb.	KEH	AG & Co. KG	down XR66			+
			Gepr.	11.09.17	circuit diagram 225	5XX	A. St. 00		B1. 43
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.			57 B1.



				Datum								
				Bearb.	KEH	H. Stoll		signals auxiliary take		Id. Nr. 274 381		
				Gepr.	11.09.17	AG & Co. KG		down XR66				
				circuit diagram 225				7XX / 8XX				
				Urspr.	Ers. f.	Ers. d.		A. St. 00		B1. 44		
										57 B1		

A2
19.0



44.8/ CWAZ_5V_SENSOR

XR67 9

10

11

7

8

12

4

5

6

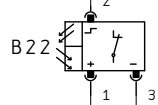
W43.3 b1

W43.1 b1

W43.2 sw

B_S24 18.4
1 2

B_S49
4 1



W43.3 bn

W43.1 bn

W43.2 bn b1

XR67 1

3

2

13

14

44.8/ 28V_abg_re
44.8/ GND_re

28V_abg_re /48.1
GND_re /47.0

comb hook
open

protective flap
comb squeezed

Light barrier
comb

analog IN6 res..

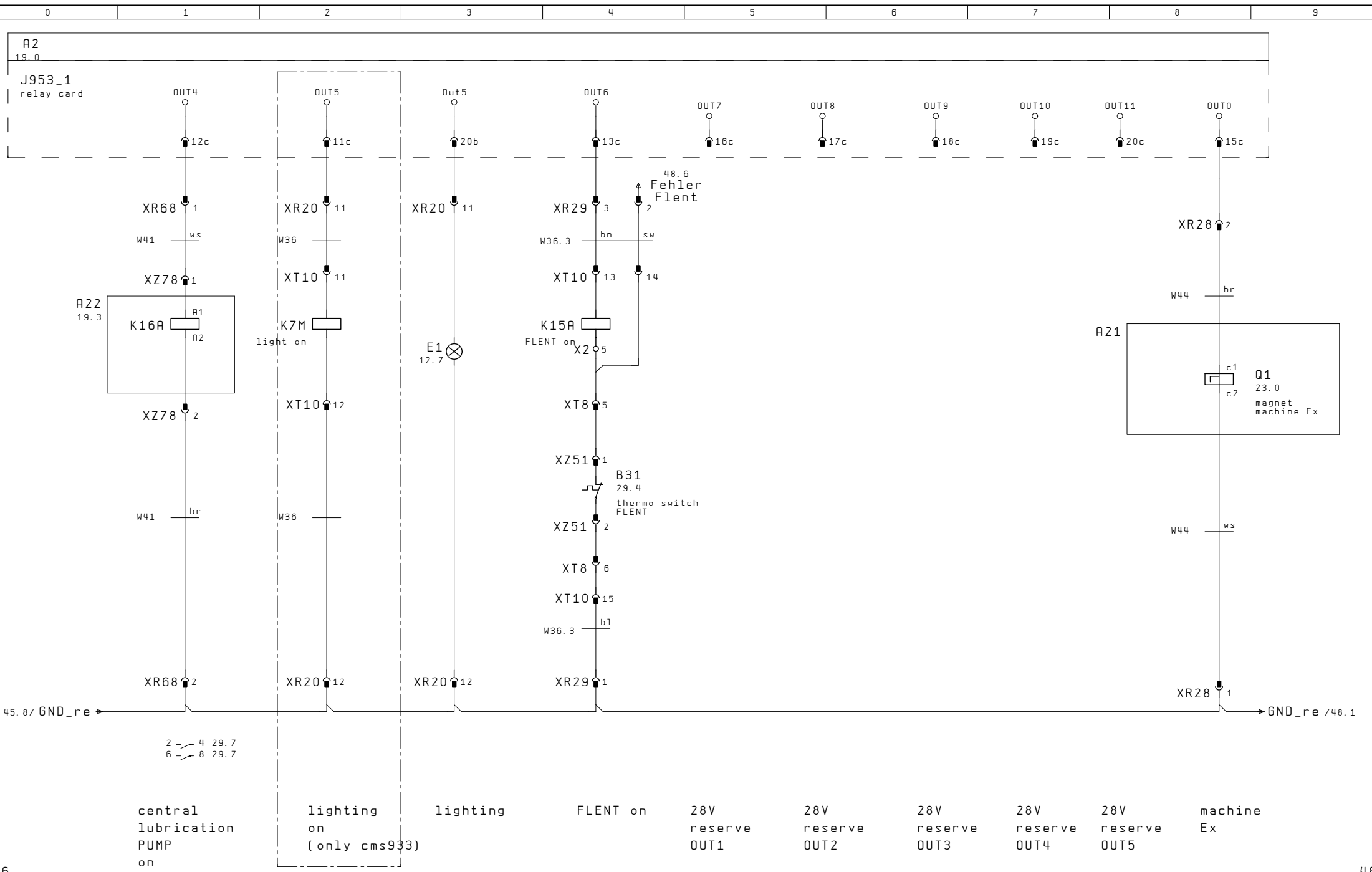
reserve
temperature 6

res. OUT 6

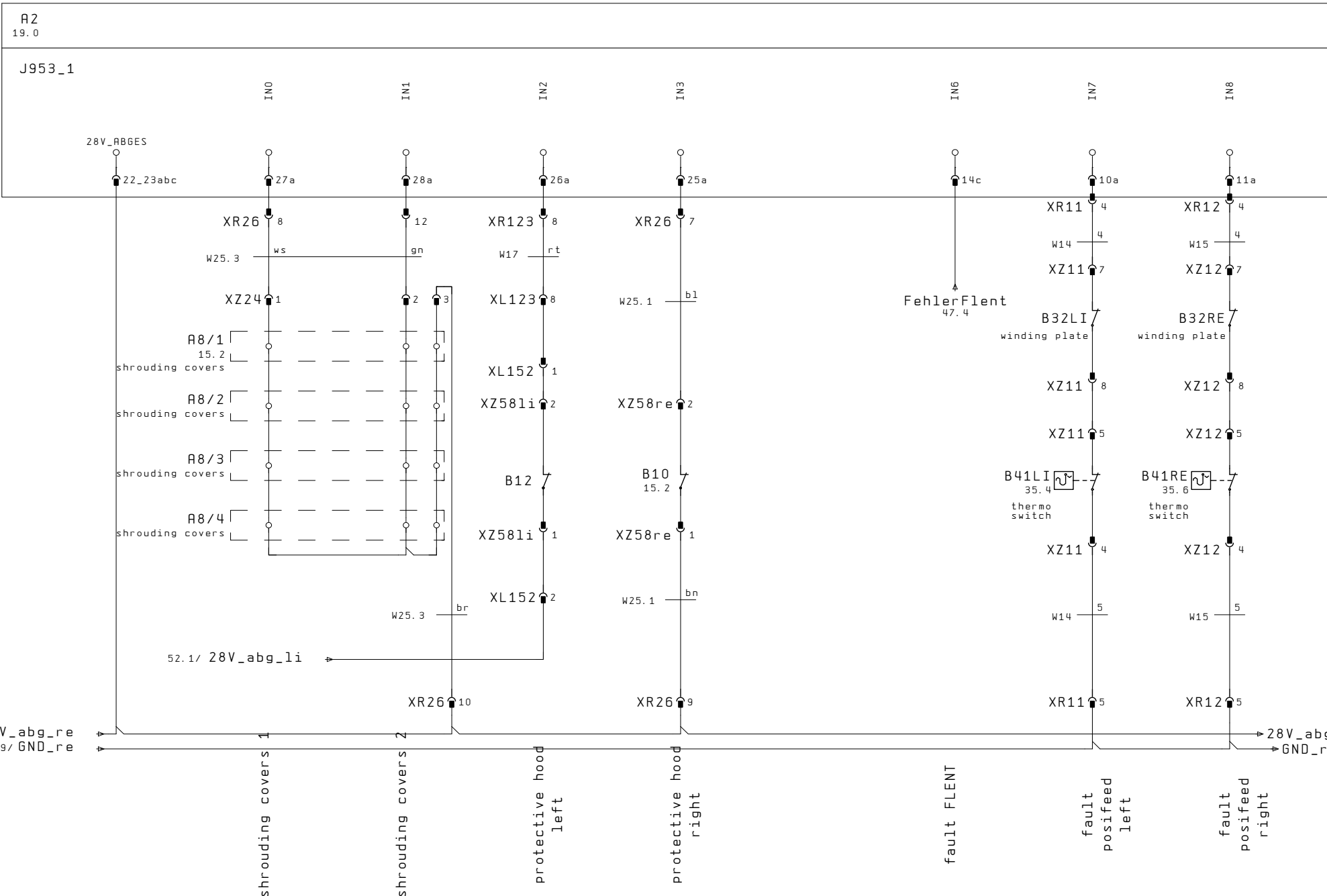
reserve IMP 6A

reserve IMP 6B

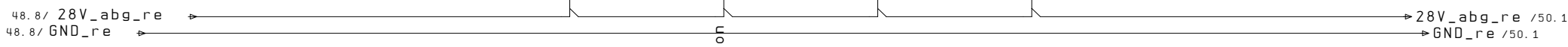
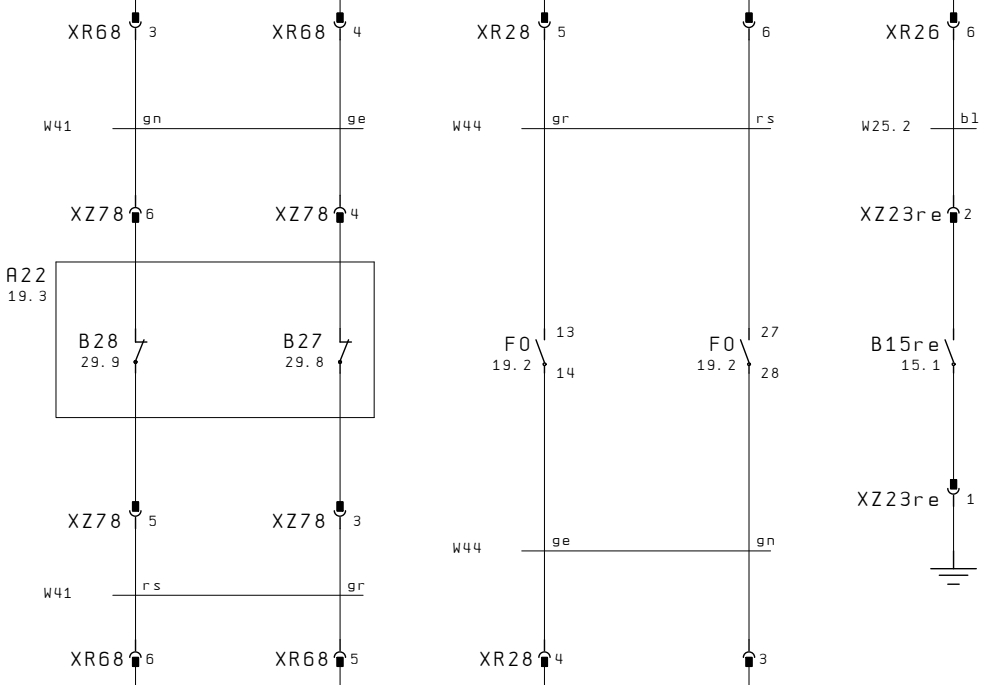
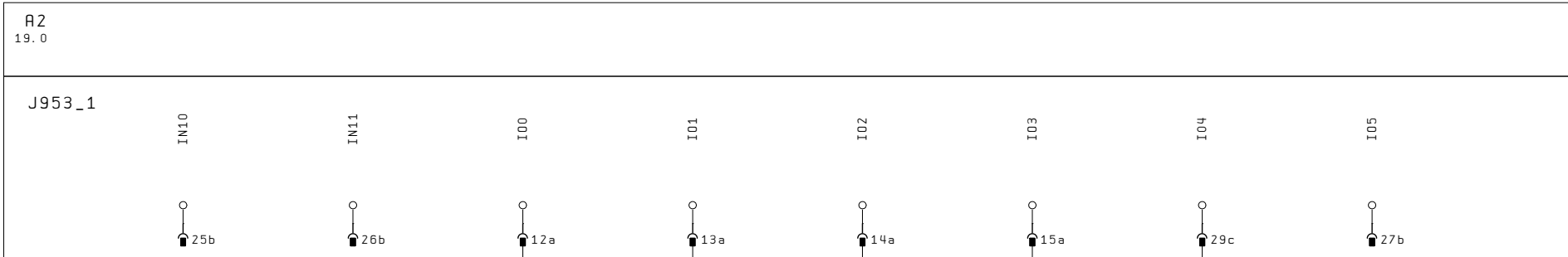
			Datum		H.Stoll	signals comb hook XR67	Id.Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG	5XX / 7XX / 8XX	A. St. 00	+
			Gepr.	11.09.17	circuit diagram 225			B1. 45
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1



46				48			
Datum		H. Stoll AG & Co. KG		outputs relay card		Id. Nr. 274 381	
Bearb.	KEH	circuit diagram 225				=	
Gepr.	11.09.17					+	
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.	A. St. 00
							B1. 47
							57 B1.



			Datum		H. Stoll	inputs relay card 1	Id. Nr. 274 381	=
			Bearb. KEH		AG & Co. KG			+
			Gepr. 11.09.17	circuit diagram 225			A. St. 00	B1. 48
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1



28V reserve IN1

28V reserve IN2

central lubrication pressure switch

central lubrication level

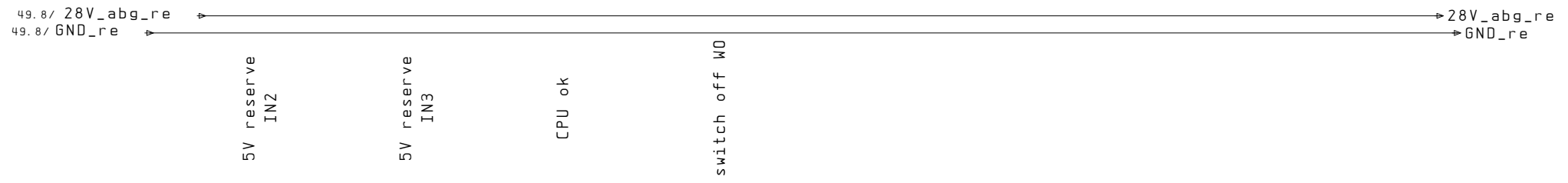
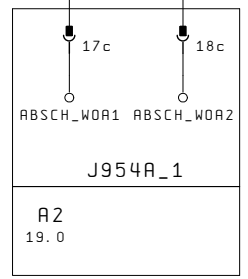
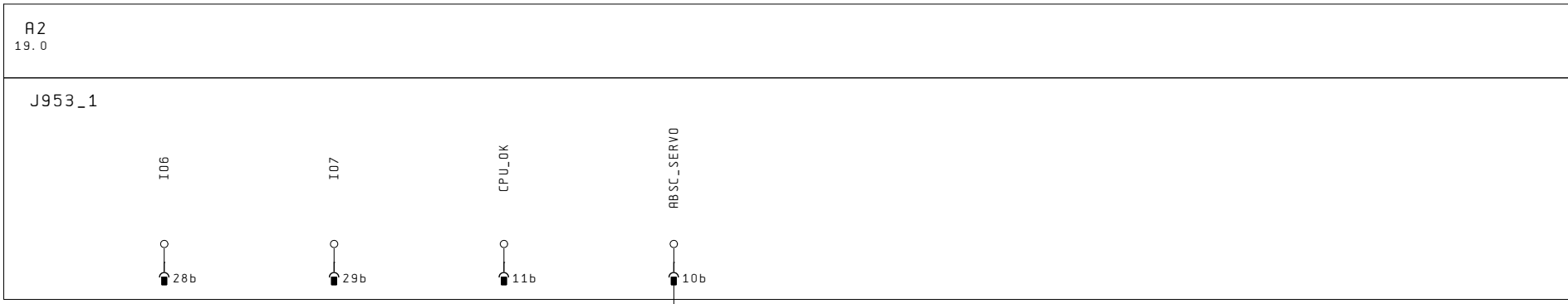
main contacts open

main switch open

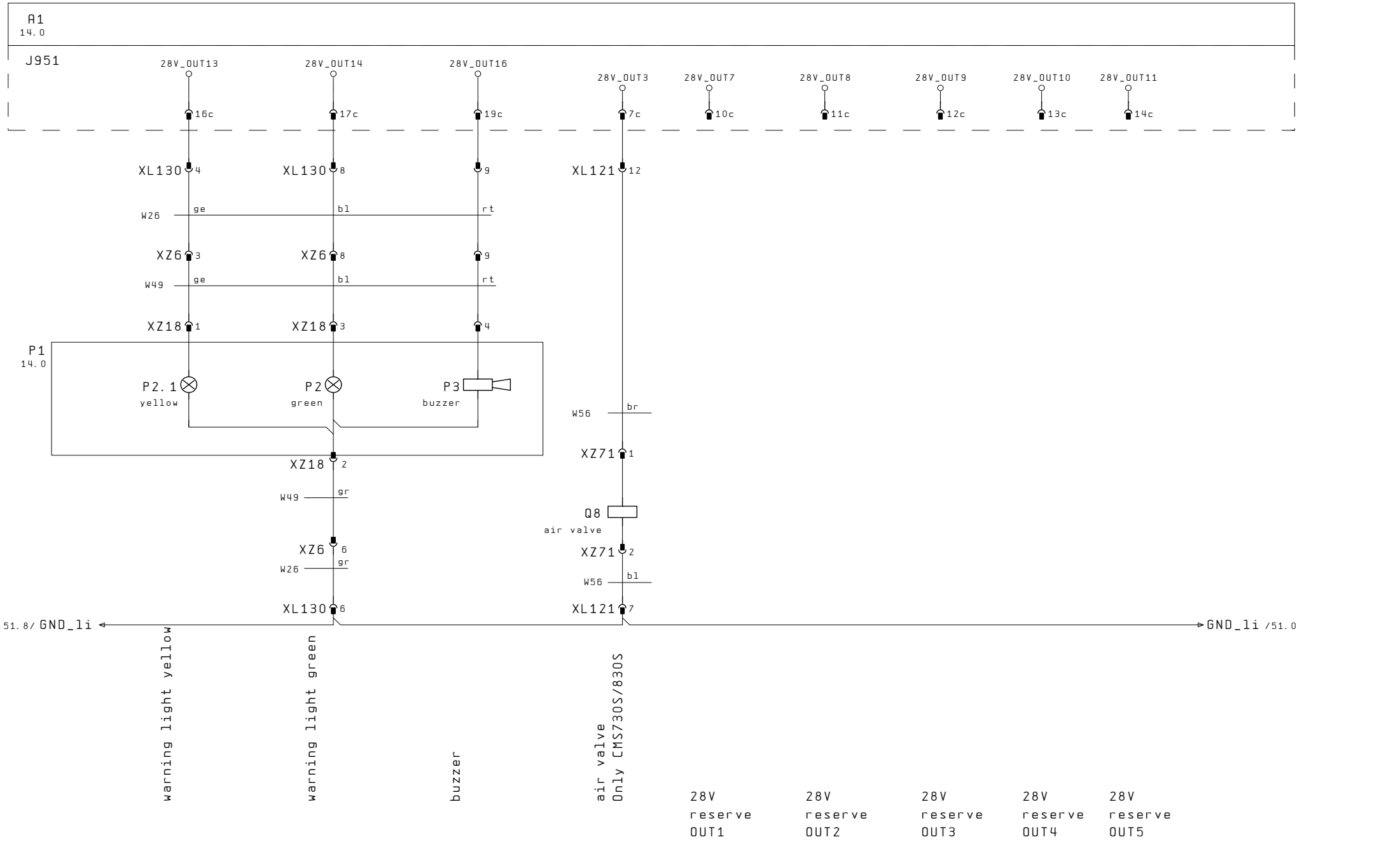
lateral slack tensioner right

5V reserve IN1

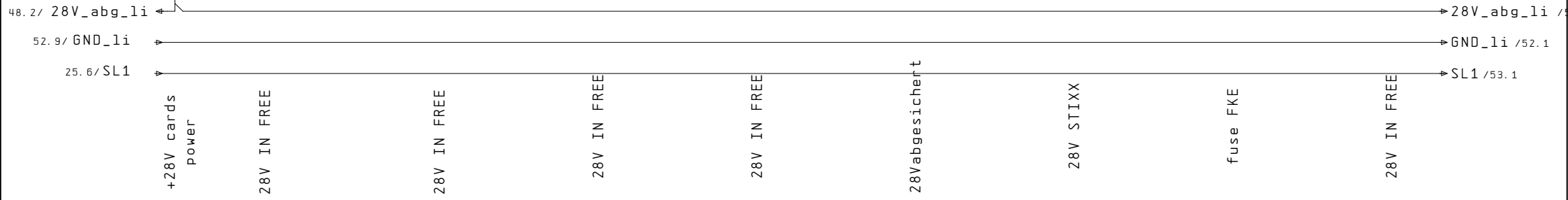
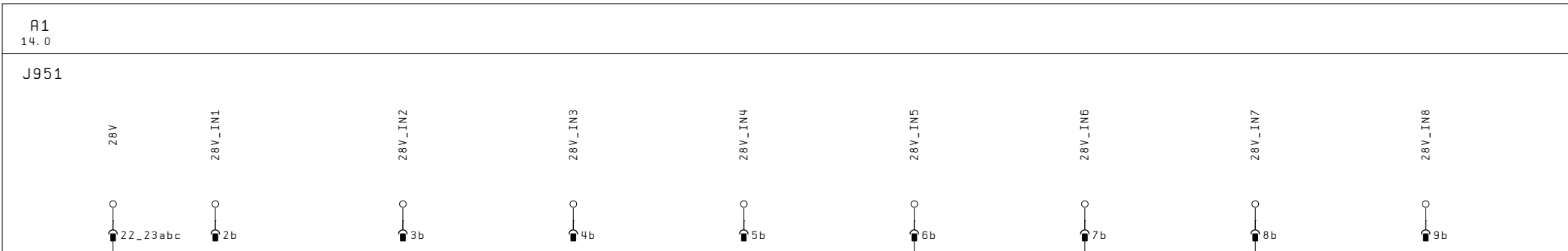
			Datum		H. Stoll	inputs relay card 2	Id. Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG			+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 49
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1



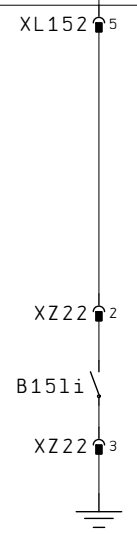
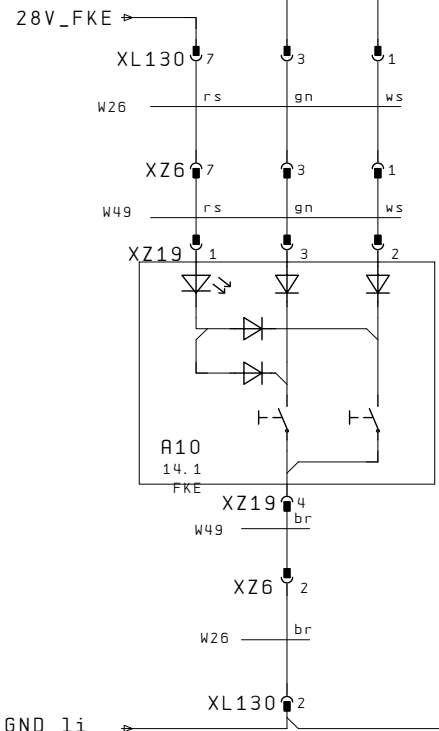
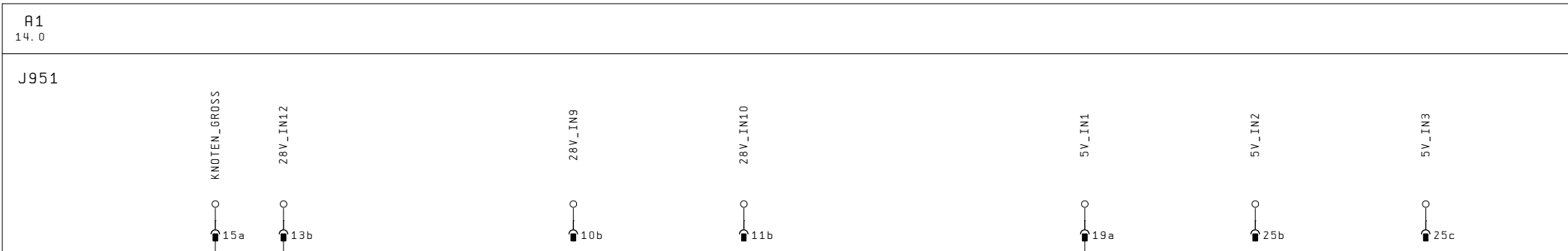
			Datum		H. Stoll	inputs relay card 3	Id. Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG			+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 50
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.



				Datum			H. Stoll	outputs batterie card		Id. Nr. 274 381		=
				Bearb.	KEH	AG & Co. KG						+
				Gepr.	11.09.17	circuit diagram 225				A. St. 00		B1. 51
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.					57 B1.	



			Datum		H. Stoll	inputs batterie card	Id. Nr. 274 381	
			Bearb.	KEH	AG & Co. KG			
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 52
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.



53.9/ GND_li → GND_li /53.1

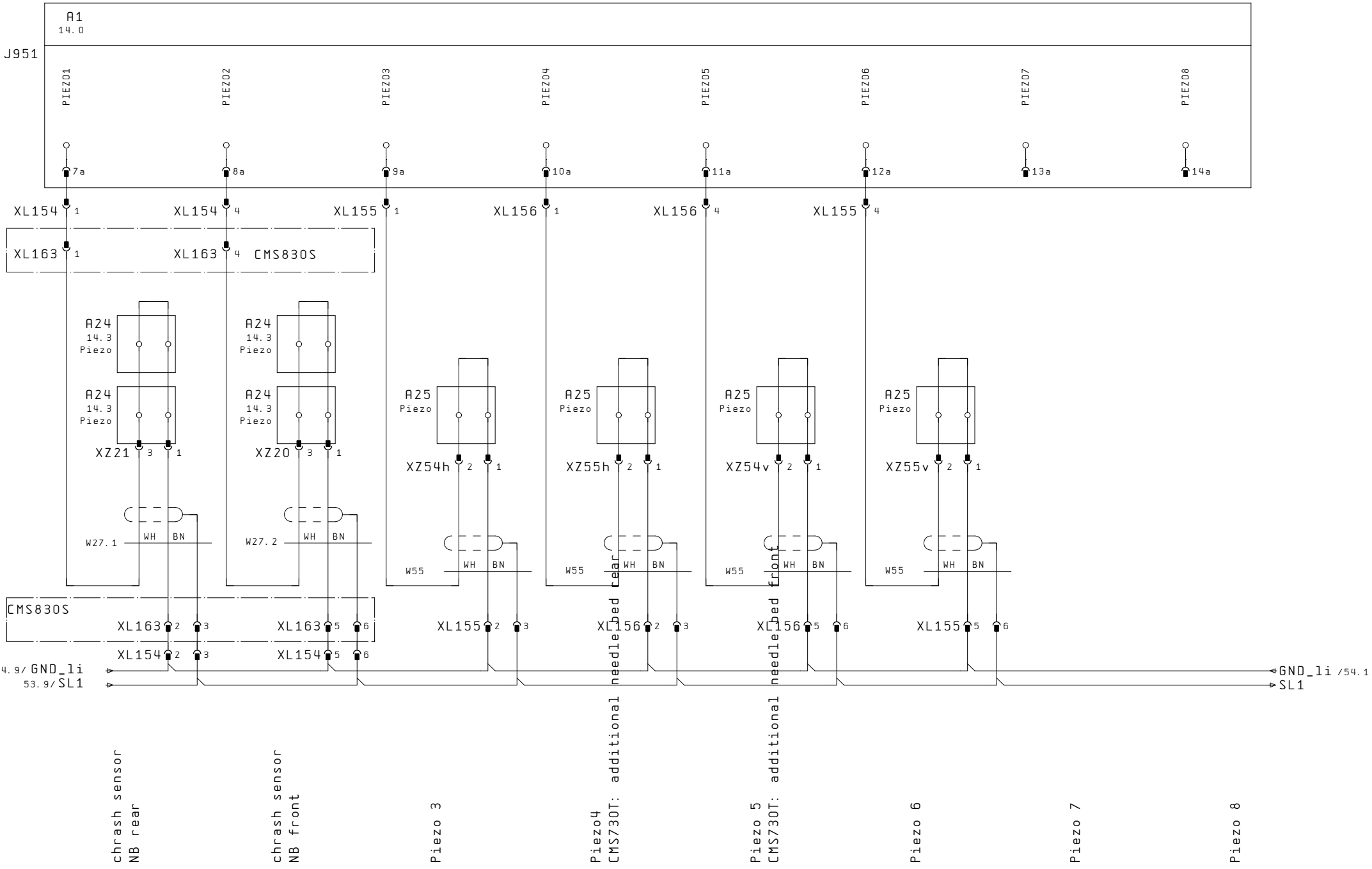
52.9/SL1 → SL1 /54.1

bur1 big
bur1 small

28V IN FREE
28V IN FREE

lateral slack tensioner
left

		Datum		H. Stoll		knot dedector		Id. Nr. 274 381		=	
		Bearb. KEH		AG & Co. KG				A. St. 00		+	
		Gepr. 11.09.17		circuit diagram 225						B1. 53	
Änderung		Datum		Urspr.		Ers. f.		Ers. d.		57 B1.	



chrash sensor
NB rear

chrash sensor
NB front

Piezo 3

Piezo4
CMS730T: additional
needle bed rear

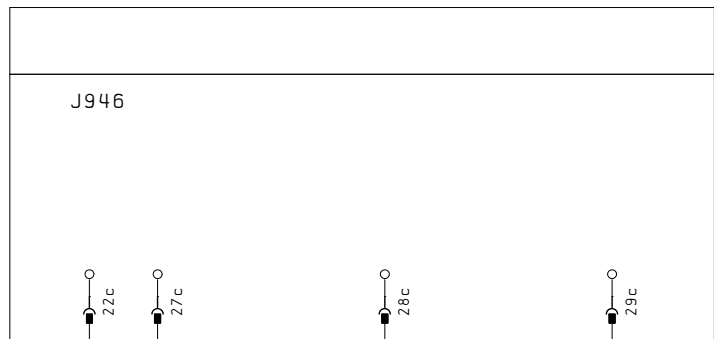
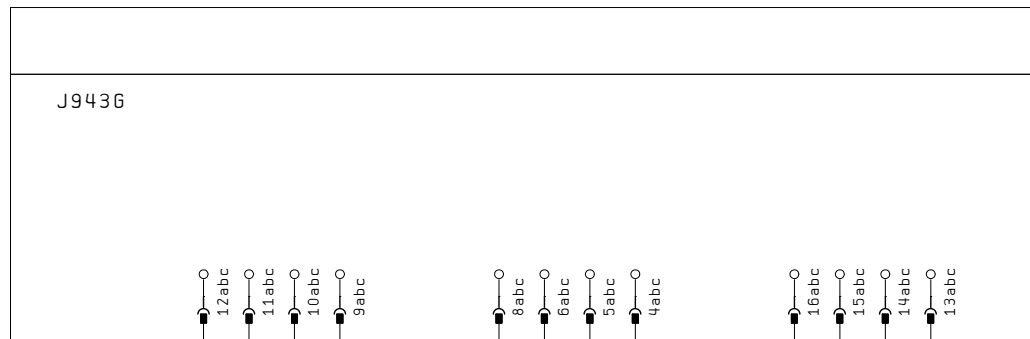
Piezo 5
CMS730T: additional
needle bed front

Piezo 6

Piezo 7

Piezo 8

			Datum		H. Stoll	inputs batterie card	Id. Nr. 274 381	
			Bearb.	KEH	AG & Co. KG	chrash sensor		
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 54
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1



XL331

XL330

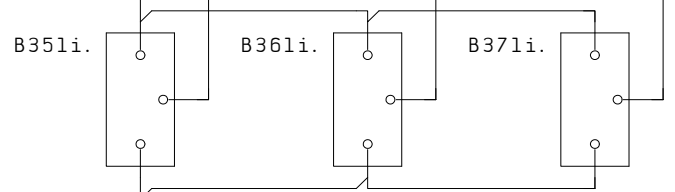
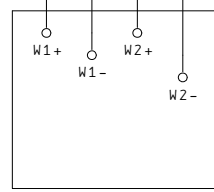
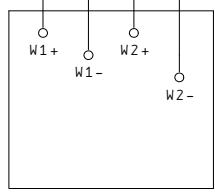
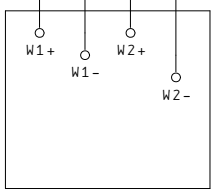
W33

W34

R18

XZ661i

XZ671i.



MP1

MP6

MP3

XZ671i.

XL330

GND_li
56.5

motor tuck

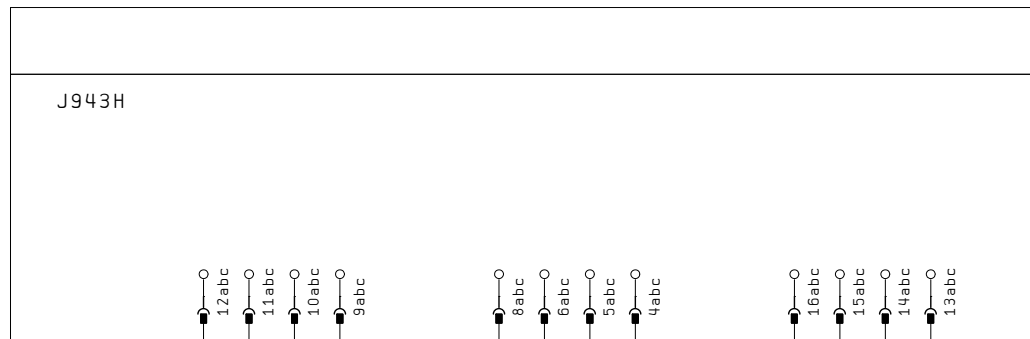
motor selection

motor drive

sensor tuck

sensor selection sensor drive

			Datum		H. Stoll	terminals/Cutting left	Id. Nr. 274 381	=
			Bearb.	KEH	AG & Co. KG			+
			Gepr.	11.09.17	circuit diagram 225		A. St. 00	B1. 55
Änderung	Datum	Name	Norm	Urspr.	Ers. f.	Ers. d.		57 B1.



XL329

XL330

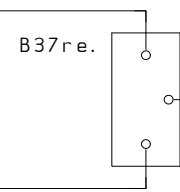
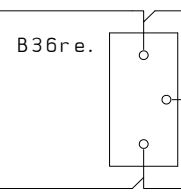
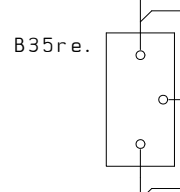
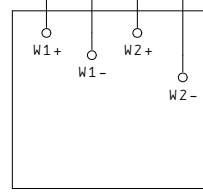
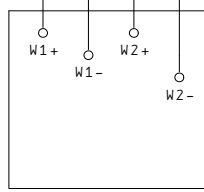
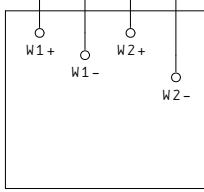
W32

W34

R19

XZ66re

XZ67re.



MP2

MP5

MP8

B35re.

B36re.

B37re.

motor tuck

motor selection

motor drive

XZ67re.

XL330

GND_li
55.5

sensor tuck

sensor selection sensor drive

				Datum			H. Stoll	terminals/Cutting right	Id. Nr. 274 381		=
				Bearb.	KEH	AG & Co. KG					
				Gepr.	11.09.17	circuit diagram 225					
				Urspr.	Ers. f.	Ers. d.			A. St. 00		B1. 56
Änderung				Datum	Name	Norm					57 B1.

