

Circuit diagram 224

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STOLL

Computer EKC1, Ident. No.: 274 380.00

CMS	330HP	502HP+	530HP	520C	ADF									
Typ	694 695	669 690 691	656 670 671 698	672	685 688 804 805 806 808									
Circuit diagram 224	X	X	X	X	X									

ELECTRICAL DATA OF CMS MACHINES

Mains voltage : 230/400V
230V (CMS 502)
±10% 50/60 Hz
Phase number :1 or 2
Rated current F0 :10A
Main fuse (of customer) :16 A slow-blow fuse

Mains connection:

Caution! Before connecting check for the mains voltage which is at the operating place of the machine.

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.

0	1	2	3	4	5	6	7	8	9
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Spalte X: eine automatisch erzeugte Seite wurde manuell nachbearbeitet

ESSJ0100

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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.301023→ J023)
K__	Relays
M__	Motors
P__	Signal equipment
Q__	Brakes, magnets
T__	Transformers
W__	Cable
V__	Interference suppressors
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 224

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Computer EKC1, Ident. No.: 274 380.00

Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 502	Ident No. CMS 530, 520C	Ident No. ADF
A1	Control cabinet.		270747	270748 272694(W)	271644 271645(W)
A6	Battery plug-in unit		301 027	301 027	301 027
A7	Card Engaging		259 000	259 000	259 000
A8	Magnet switch shrouding covers outside		256 667	264 696	256 667
A10	Yarn control device		267212	267 212 (330,530) 237 124 (520C)	237 124
A12	Impulse giver auxiliary take-down		----	217 462	217 462
A14	Magnet switch shrouding covers in the middle		256 666	264 695	256 666
A15	Racking – limit switch jack		229 396	229 396	229 396
A21	Main switch		269 633	265 631	268344
A22	Central oil lubricating pump	Partly optional	----	235 068	235 068
A23re	Length measuring device	optional	257 282	257 282	257282
A23li	Length measuring device	optional	257 283	257 283	257283
A24	Shock stop motion (Piezo)		220 011	220 011	220 011
A26	Slack tensioner left.		---	2413 45	241345
A27	Slack tensioner right.		241 346	241 346	241346
A28	Safety relay light curtain		----	----	264233
A29	Card rectifier transformer		267 335	267 335	267 335
A30	Posifeed	optional			
B10	Switch Protective hood on the right		223 350	223 350	223 350
B12	Switch Protective hood on the left		223 350	223 350	223 350
B S14	Switch take-down closed		026 259	026 259	026 259
B15li	Slack tensioner on the left	in A26	----	x	x
B15re	Slack tensioner on the right	in A27	x	x	x
B S16	Microswitch Winding plate		267 012	267 012	026 259
B S16a	Microswitch front winding plate		222 063	222 063	222 063
B20	Comb reference at the top		231 516	231 516	231516
B21	Comb reference bottom		231 520	231 520	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 A22	----	x	x
B 28	Oil pressure switch central lubrication	in A22	----	x	x
B S30	Switch auxiliary take-down open		----	026 259	026 259
B31	Thermoswitch fluff absorption turbine	in M 9	----	x	x
B32	Switch winding plate feed wheel		008 529	008 529	008 529
B41li	Thermoswitch feed wheel left	in M 7	----	x	x
B41re	Thermoswitch feed wheel right	in M 7	x	x	x
B48	Release signalling switch of main switch	in A21	236 065	236 065	236 065
B S49	Cover plate Comb depressed		026 259	026 259	026 259
B50	Safety light curtain cascade		----	----	264266
B51	Safety light curtain end device		----	----	264267
B52	Thermoswitch rectifier	in A29	x	x	
E1	Machine lighting at the top		268 722	264759	264759
E3	Ventilator drive motor		254 872	254 872	254 872
E4	Ventilator control unit on the right (servo)	in A2	229 059	229 059	229 059
Q1	Protective motor switch	in A21	235 115	235 115	235 115
F 8	Servo	8AT / 440V	241 866	241 866	241866
F11	Power supply	20AT / 80V	267 336	267 336	267336
F12	Power supply	20AT / 80V	267 336	267 336	267336

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Computer EKC1, Ident. No.: 274 380.00

Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 502	Ident No. CMS 530, 520C	Ident No. ADF
F20	Fluff absorption (FLENT)	8AT / 440V	241 866	241 866	241 866
F23	Servo FF	25AT / 80V	----	----	268 471
F Si1	28V protected (switch)	1,0 AF	008 748	008 748	008 748
F Si2	28V Length measuring device	1,0 AF	008 748	008 748	008 748
F Si3	Fuse of yarn control unit	1,0 AF	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
F Si6	Fuse of battery plug-in unit	6,3AT	026 809	026 809	026 809
P1	Warning light complete		240 395	240 395	240395
P2	Warning light green	in P1	x	x	x
P2.1	Warning light yellow	in P1	x	x	x
P3	Signal transmitter (horn)	in P1	x	x	x
K15A	Relay fluff absorption	in T1	----	267 334	267 334
K16A	Relay fluff absorption	in A22	----	x	x
M 1	Drive motor		240 740	240 740	240 740
M 2	Rear racking motor		259 115	259 115	259 115
M 3	Take-down motor		259 655	259 655	259655
M 4	Comb motor		259 655	259 655	259655
M 5	Auxiliary take-down motor		264 923 (opt)	264 923	264923
M 6	Comb hook motor		259 009	259 009	259009
M 7	Friction feed wheels		219 800	219 800	219 800
M 9	Suction turbine fluff absorption (FLENT)		----	262 592	262 592
M 14	Central lubrication of motor pump	in A22	----	x	x
Q1	Magnet machine execute	in A21	235 116	235 116	235 116
Q2	Magnet Engaging rod		026 233	026 233	026 233
Q5	Brake motor take-down	in M3	x	x	x
Q6	Brake motor comb	in M4	x	x	x
T1	Main transformer		262 020	262 020	267157
W 1	Cable drive motor		262 235	262 235	268 281
W 2	Cable resolver drive		270 243	270 243	270 244
W 3	Cable racking motor		262 237	262 237	262 237
W 4	Cable resolver racking		270 037	270 037	270 037
W 9	Cable fabric take-down motor		260 324	260 324	260 324
W11	Cable comb motor		260 326	260 326	260 326
W12	Cable auxiliary take-down motor		----	265 676	265 676
W13	Cable comb hook motor		260 328	260 328	260 328
W14	Cable feed wheel on the left		240 464	240 464	240 464
W15	Cable feed wheel on the right		240 294	240 294	240 294
W20	Cable switch main take-down		262 240	262 240	262 240
W22	Cable racking limit switch		240 292	240 292	240 292
W25	Cable protective units on the right		265 694	265 694	264 751
W26	Cable yarn tensioner , warning light , horn		266 268	266 268	266 268
W27	Cable piezo sensor		240 518	240 518	240 518
W28	Cable switch comb		262 241	262 241	262 241
W29	Cable encoder auxiliary take-down		265 698	265 698	265 698
W30	Cable engaging		252 538	252 538	252538
W31	Cable Length measuring device	optional	257 239	257 239	257 239
W36	Cable lighting LED		265 675	265 675	265 675
W37	Cable Power supply SERVO		261 350	261 350	261 350
W39	Cable Power supply		261 351	261 351	261 351

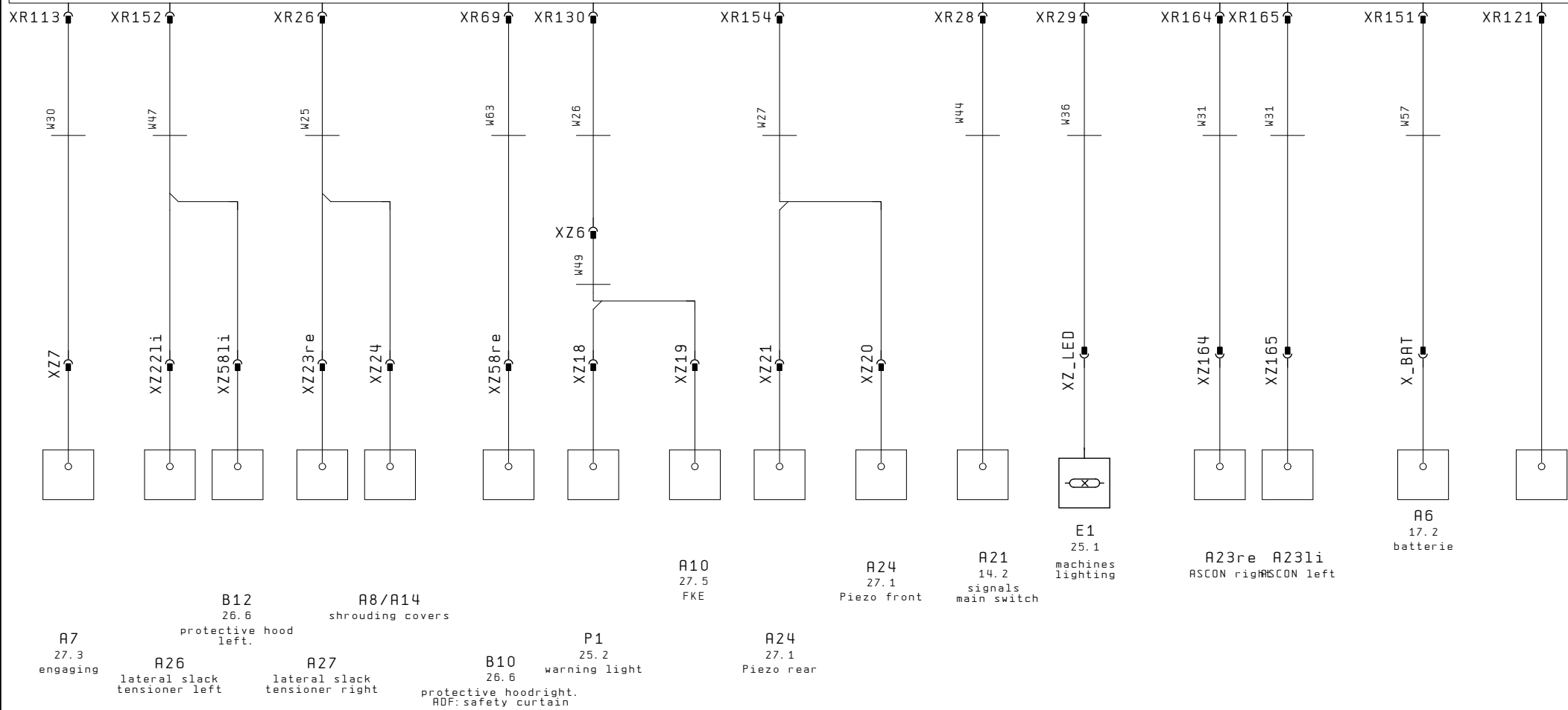
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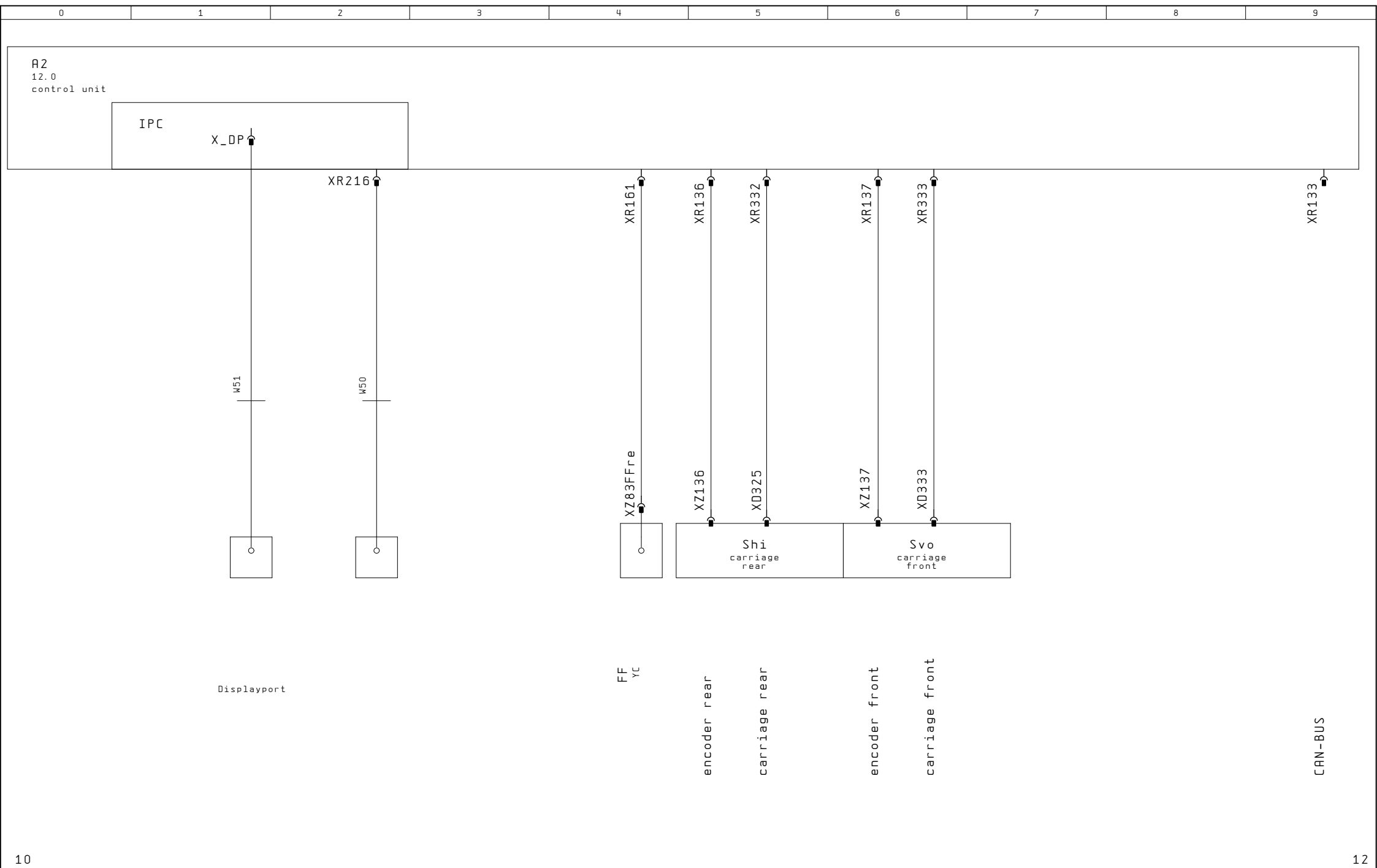
Computer EKC1, Ident. No.: 274 380.00

Identifier EN 61346-2	Designation	Value/function	Ident No. CMS 502	Ident No. CMS 530, 520C	Ident No. ADF
W40	Cable power supply central lubrication	Partly optional	----	254 098	254098
W41	Cable control central lubrication	Partly optional	----	254 099	254099
W42	Cable switch auxiliary take down		265 677	265 677	265 677
W43	Cable switch Comb hook		262 239	262 239	262 239
W44	Cable signals main switch		262 262	262 262	268 406
W45	Cable ventilator drive		240 293	240 293	261 712
W47	Cable protective units left		265 695	265 695	264750
W48	Cable mains supply transformer		262 263	262 263	268 407
W49	Cable mains supply yarn control device,warning light		239 749	239 749	266 411
W50	Cable DUT		268 262	262 139	269 494
W51	Cable Displayport		266 416	266 416	266 416
W57	Cable batterie pug-in unit		260 330	260 330	----
W58	Cable resolver take Down		260 325	260 325	260 325
W59	Cable resolver comb		260 327	260 327	260 327
W60	Cable +40V ADF		----	----	259 107
W61	Cable data Servo ADF		----	----	259 108
W62	Cable safety curtain ADF		----	----	264271
W63	Cable protective cover right		265 696	265 696	
W64	Cable CAN		----	----	240460
W65	cable winding plate (belt take-down)		267952	267952	267952
V1	Power line filter		262 386	265 315	265 315

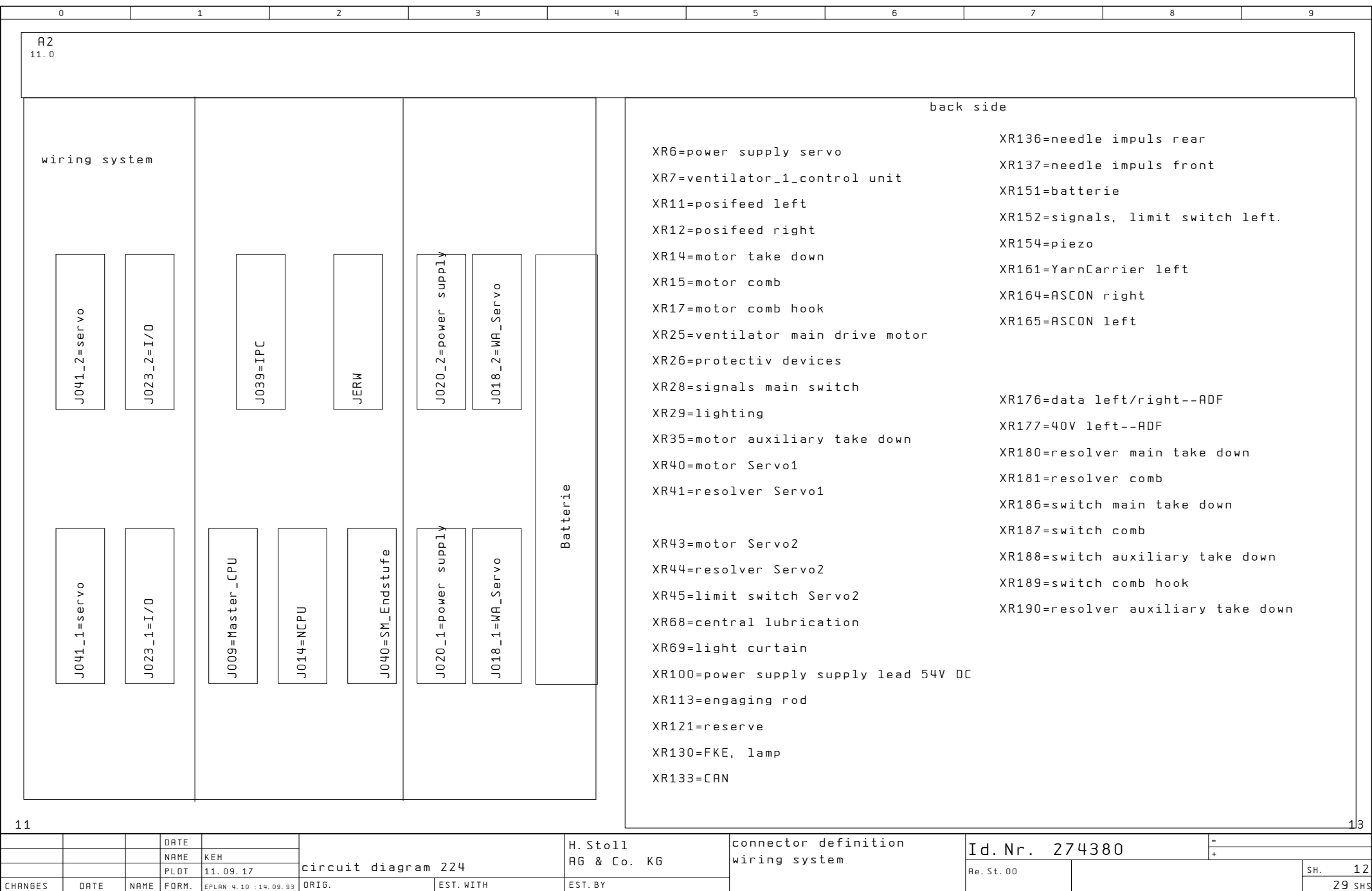
A2
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control unit



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transformer

XT7=servo

XT8=FLENT

XT9=power supply

XT10=posifeed

XT11=central lubrication

main switch

XH0=main connection main switch

XH1=power transformer

XH2=main connection main switch

XH3=230V

XH4=400V

XH5=EMI-Filter

sensors / actuator external

XZ4=resolver main drive

XZ5=resolver racking

XZ6=connector FKE, warning light

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

XZ23re=lateral slack tensioner right

XZ24=shrouding covers

XZ31=encoder Take down

XZ32=encoder comb

XZ34=brake /temperature comb

XZ35=brake /temperature Take down

XZ37=position comb top

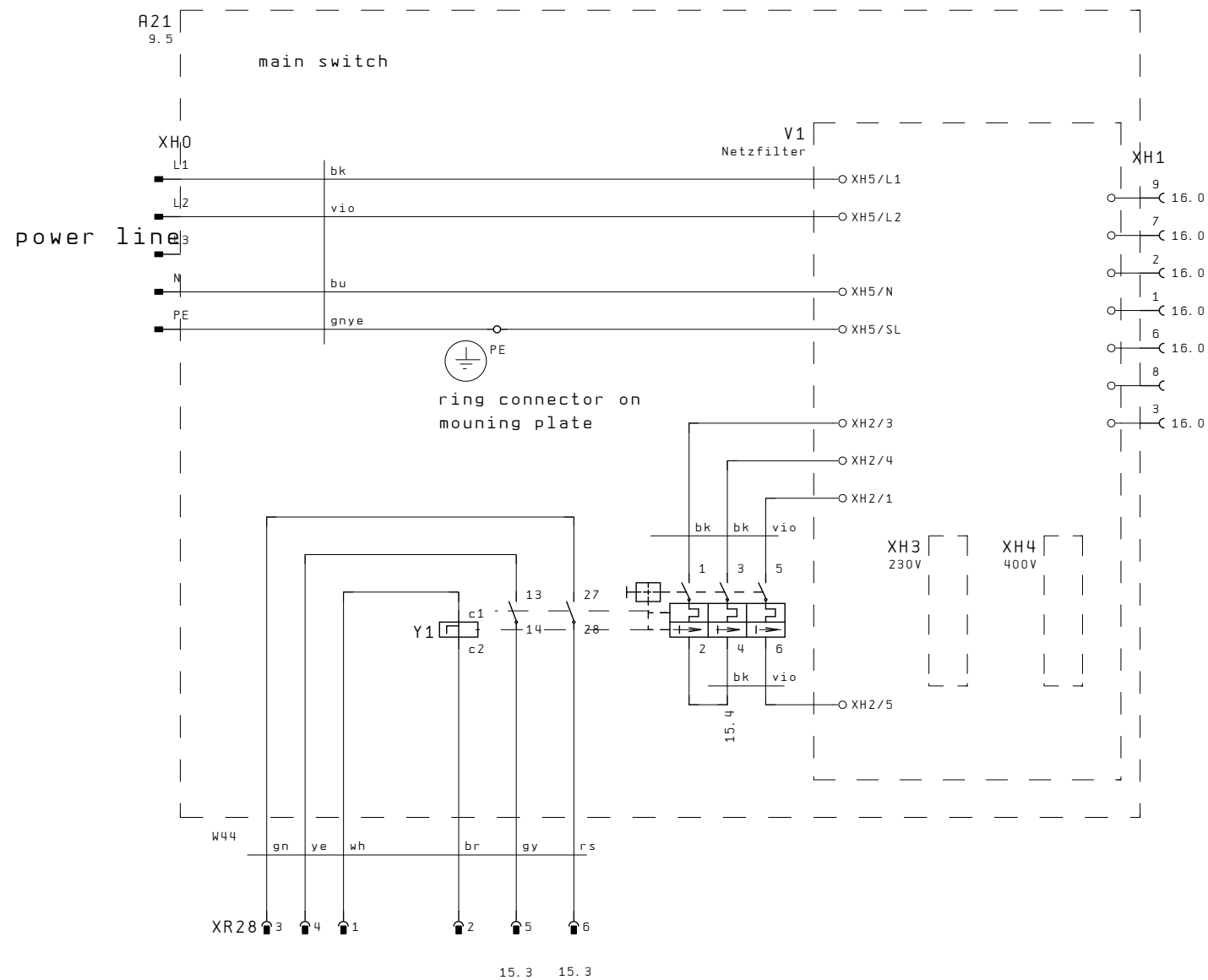
XZ38=position comb below

XZ39=winding plate Take down rear.

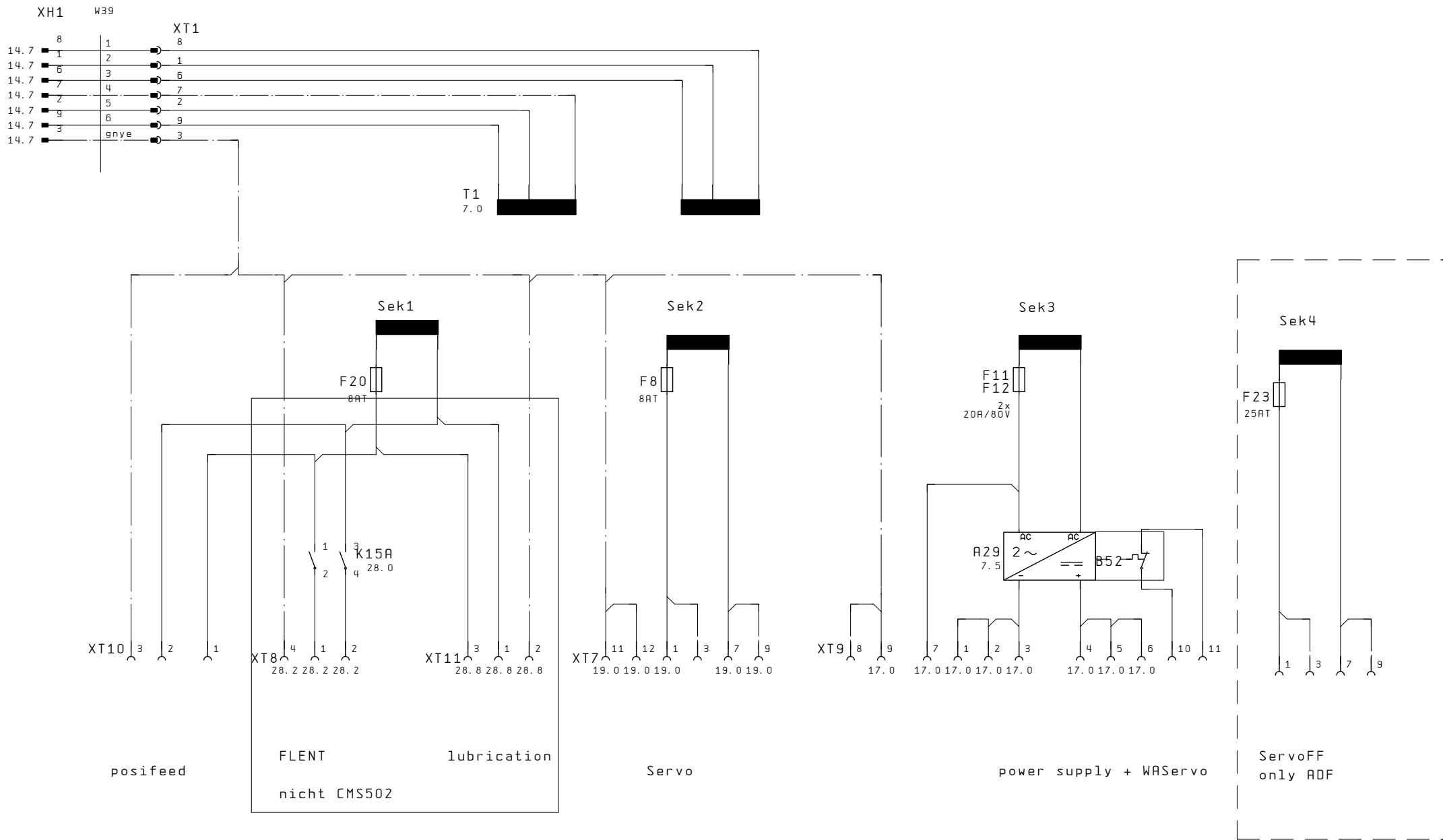
XZ58re=protective hood right

XZ59=winding plate Take down front.

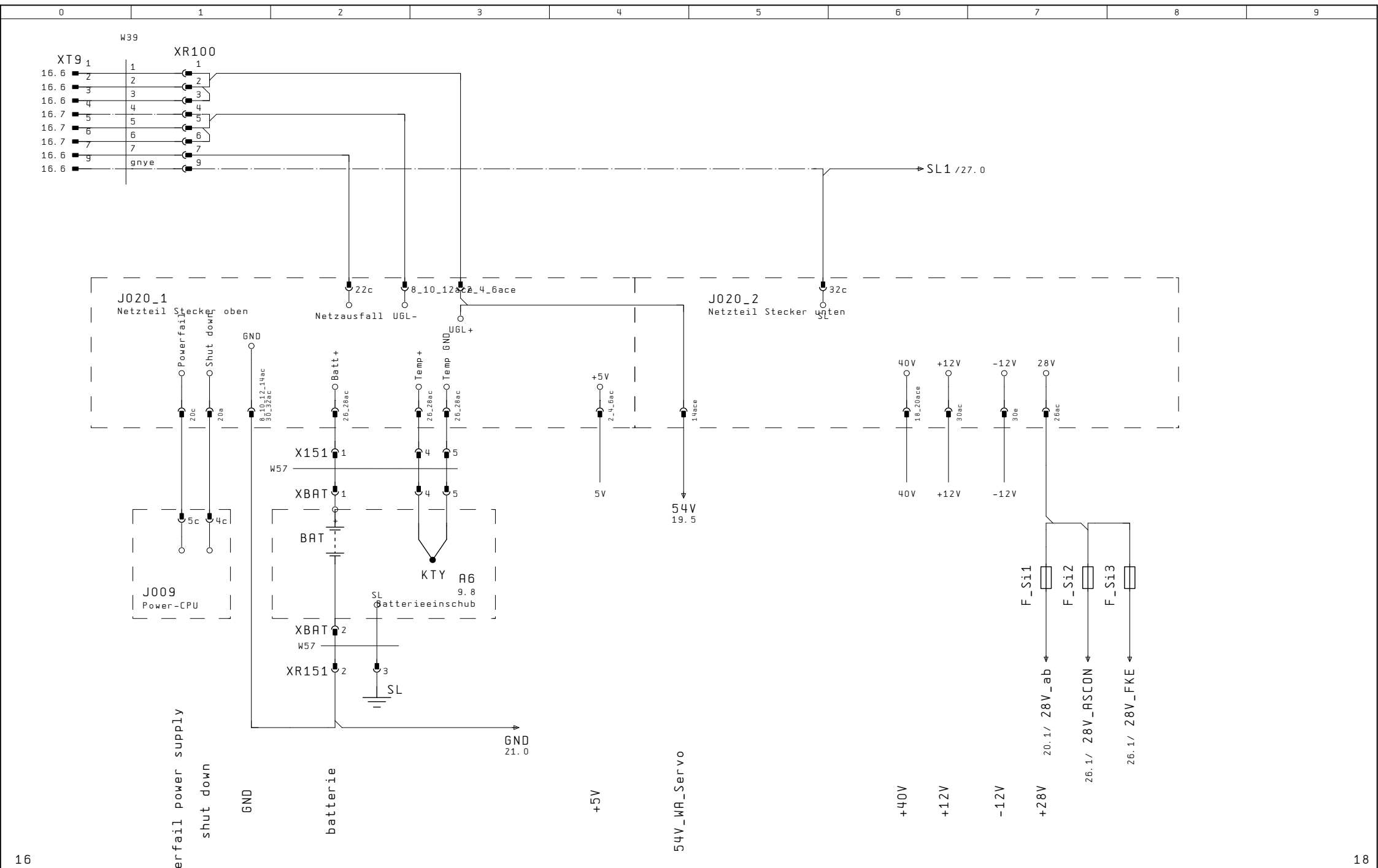
XZ45=limit switch racking



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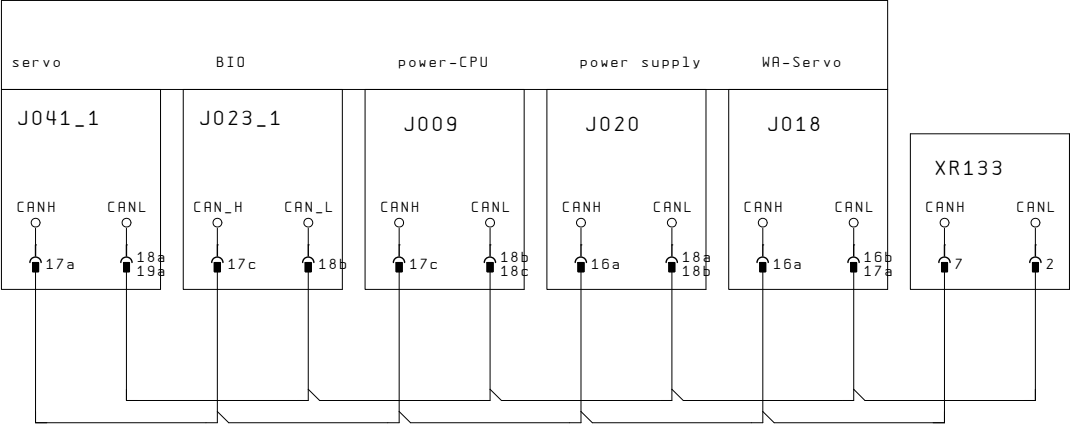


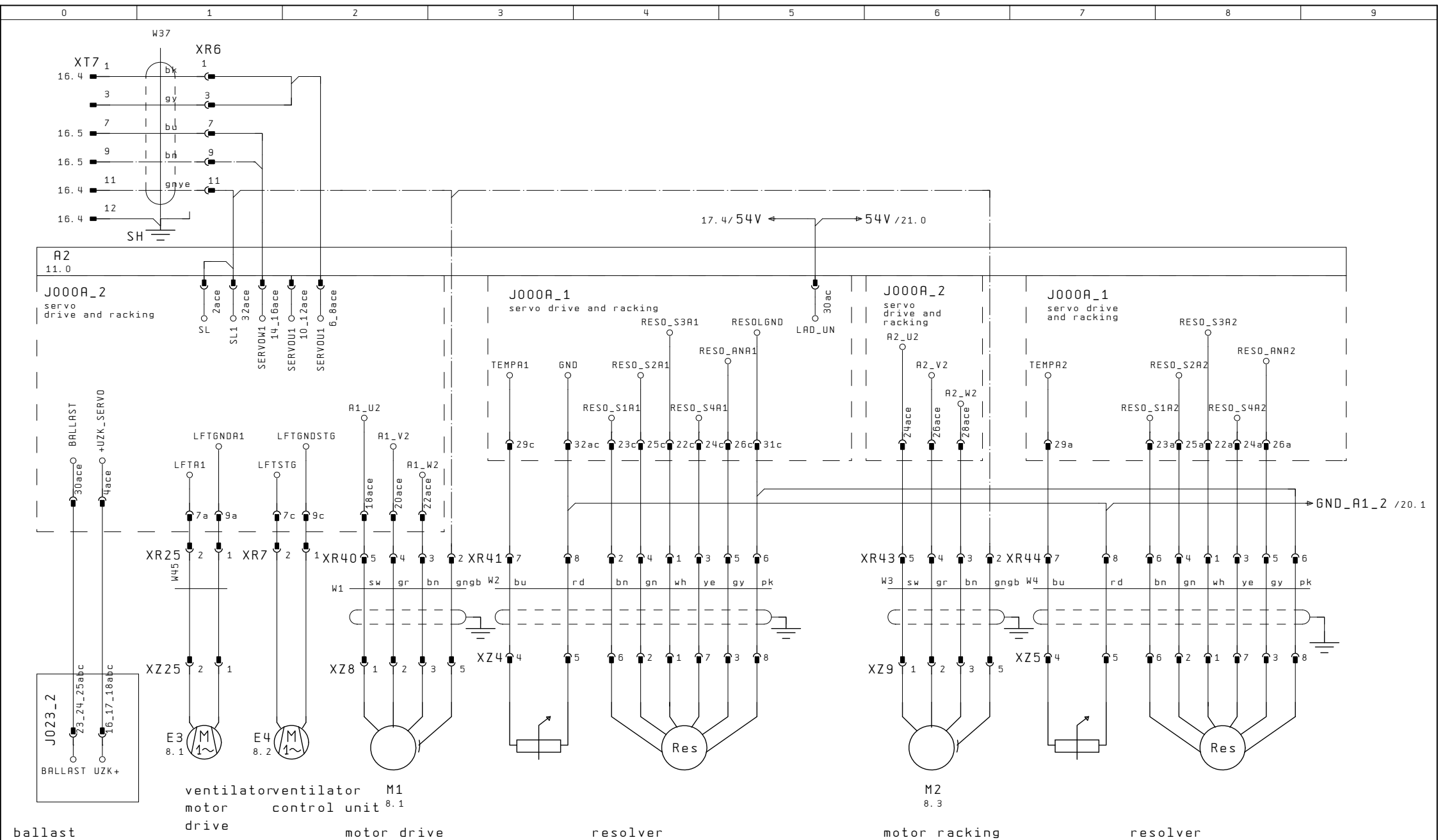
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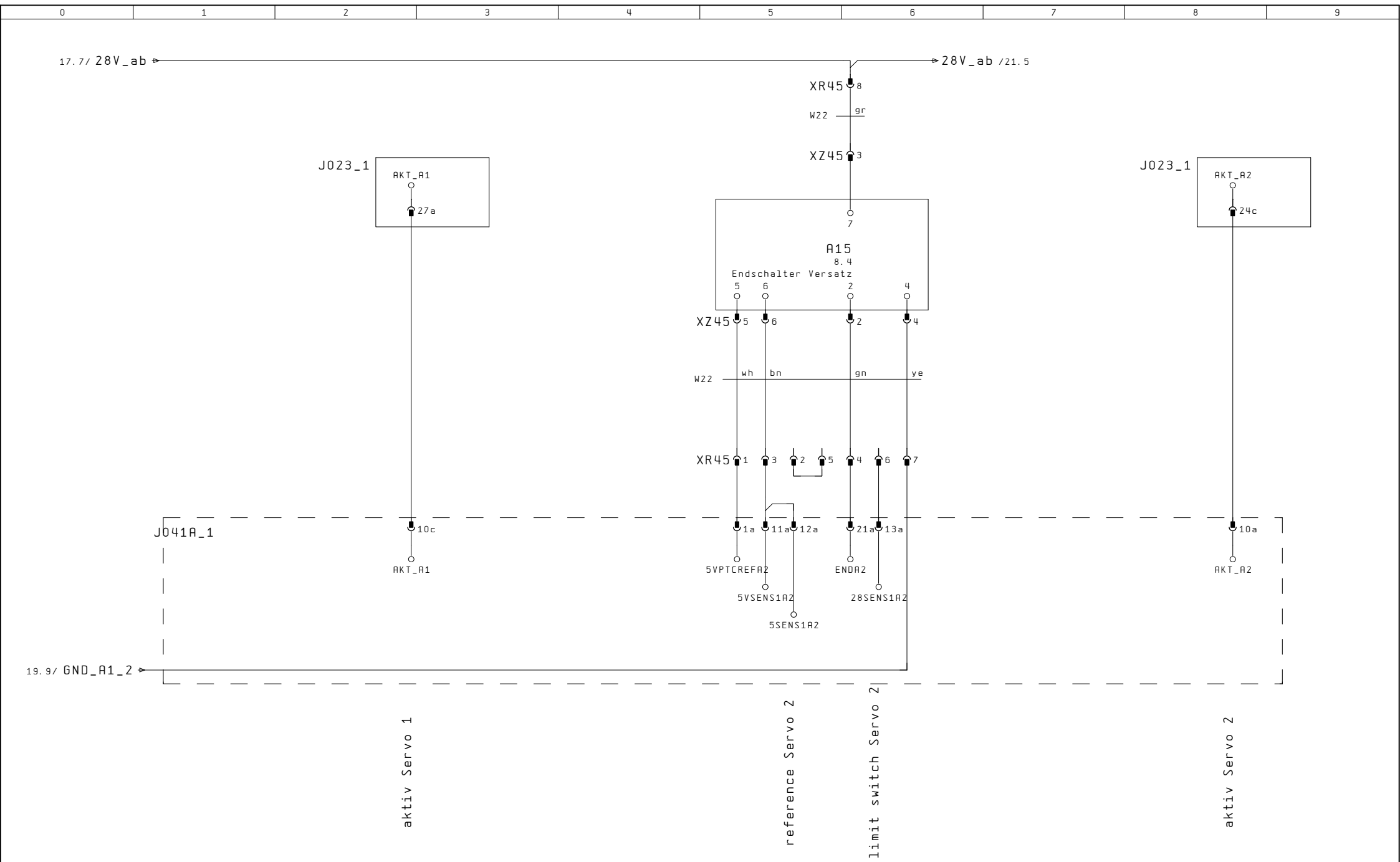


16		18	
power supply		Id. Nr. 274380	
power supply		Re. St. 00	
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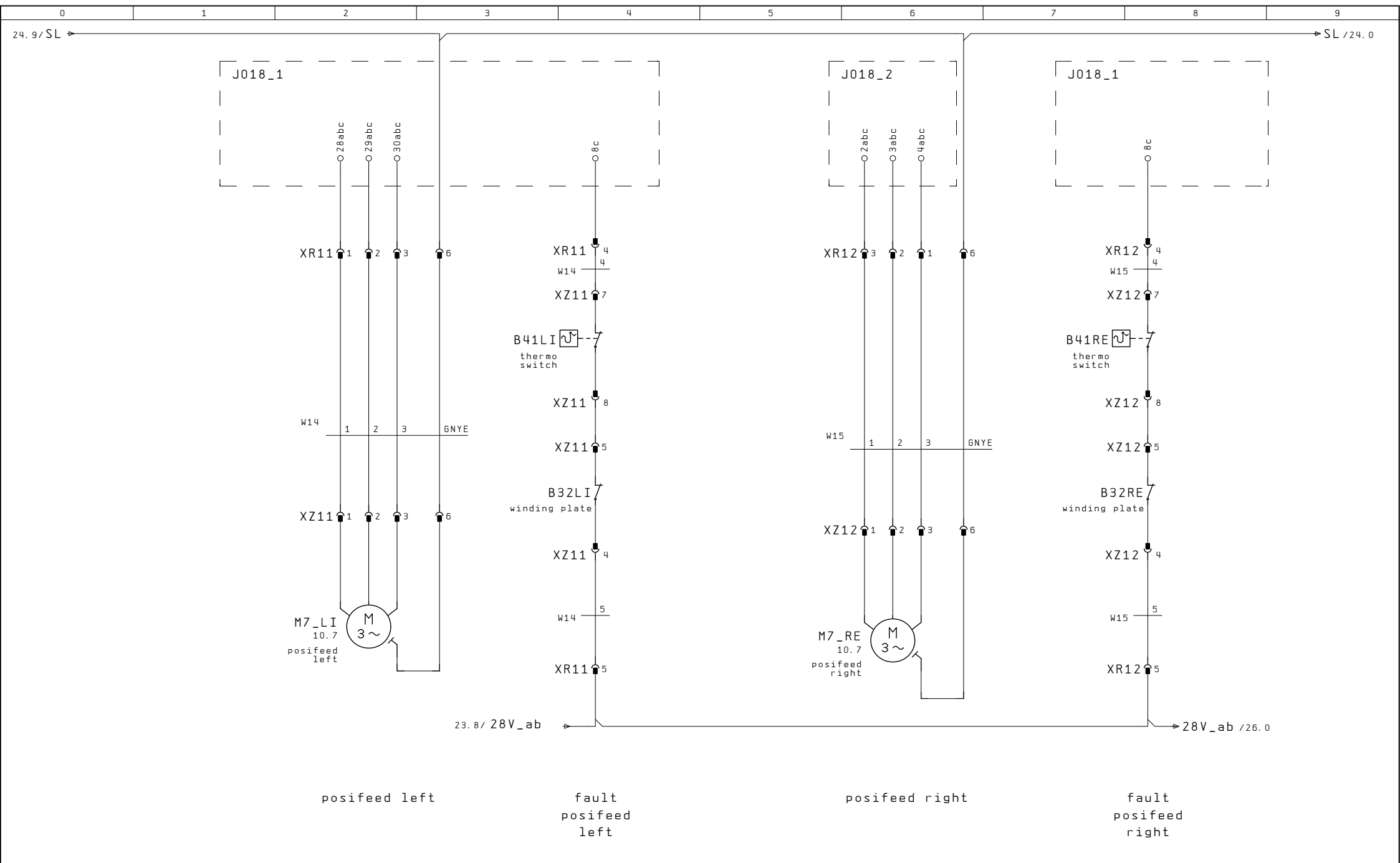
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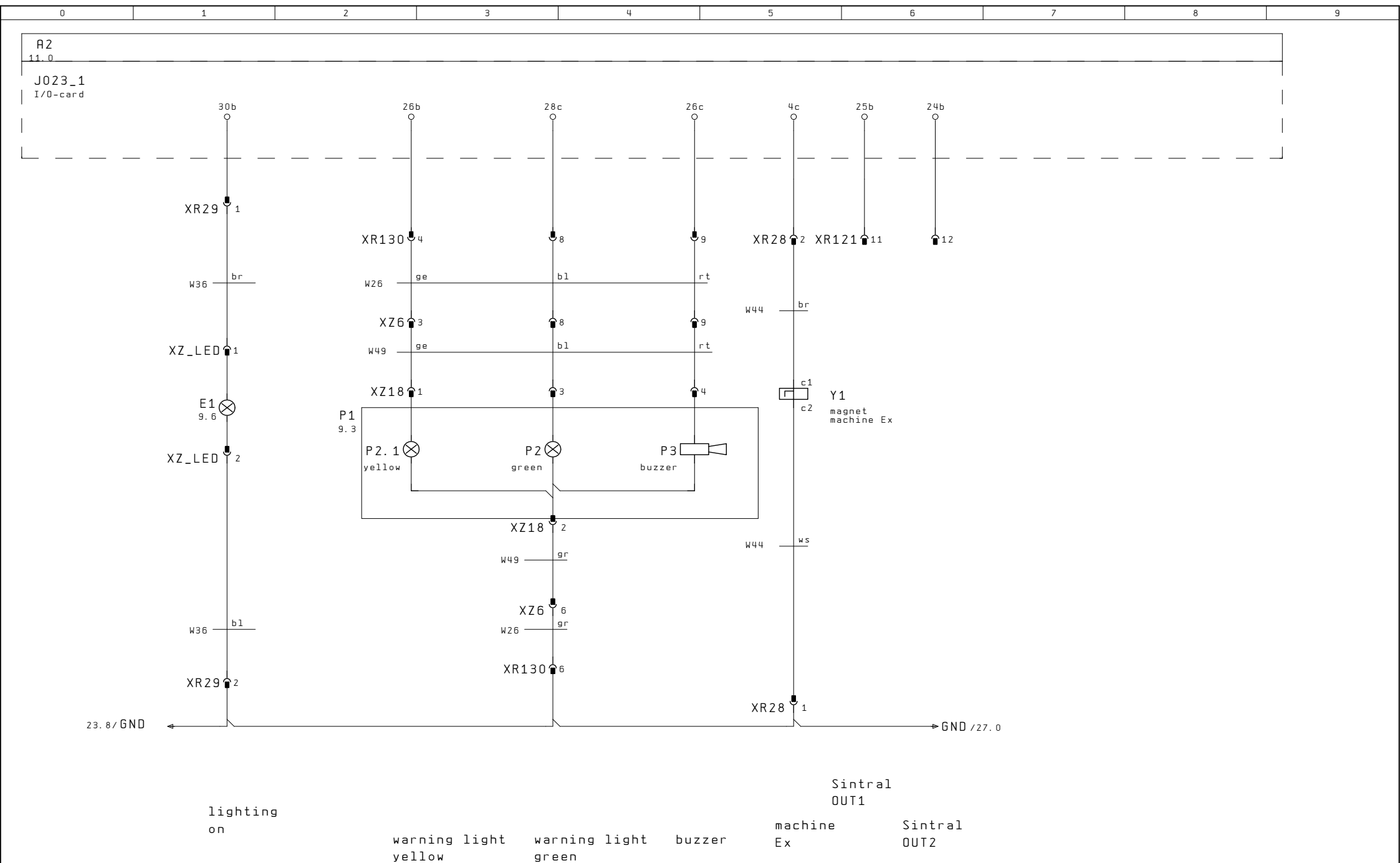




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			DATE		circuit diagram 224				H.Stoll AG & Co. KG		outputs I/O-card		Id. Nr. 274380		=		+		
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