计算机 OKC5，识别 号: 267 956.00

CMS			530HP	520C											
类型			642 643	647											
线路图 223			X	X											

CMS 编织机的电气数据

电源电压	230/400V
	±10% 50/60 Hz
相数:	1 或 2
额定电流 F0:	10A
主保险管 (客户):	16 A 慢熔保险管

主电源连接:

注意! 在连接机器前, 检查操作现场的电源电压。

通常不允许将外部电器和电器部件组与机器内部电线进行连接。

如果违反这一点，将无法保证机器功能正常。

通过发电机供电操作机器时, 注意按照 EN 60204-1, 4.3.1 段执行所需要的主电压.

Inhaltsverzeichnis

Spalte X: eine automatisch erzeugte Seite wurde manuell nachbearbeitet

ESSJ010D

Seite	Seitenbenennung	Seitenzusatzfeld	Datum	Bearbeiter	X
1	cover page		24.06.14	KEH	
2	contents		24.06.14	KEH	
3	code connector, actuator and sensors		24.06.14	KEH	
4	caption		24.06.14	KEH	
5	caption		24.06.14	KEH	
6	caption		24.06.14	KEH	
7	block diagram power line transformer		24.06.14	KEH	
8	block diagram servo drive and racking		18.06.14	KEH	
9	block diagram signals control unit		18.06.14	KEH	
10	block diagram WA Servo		23.06.14	KEH	
11	block diagram display carriage		18.06.14	KEH	
12	connector definition wiring system		24.06.14	KEH	
13	connector definition connectors external		24.06.14	KEH	
14	Netzeinspeisung		24.06.14	KEH	
15	transformer		24.06.14	KEH	
16	power supply		23.06.14	KEH	
17	CAN-BUS		18.06.14	KEH	
18	servo drive and racking		18.06.14	KEH	
19	inputs servo HA+V		23.06.14	KEH	
20	take-down		23.06.14	KEH	
21	comb		24.06.14	KEH	
22	auxilary take down		24.06.14	KEH	
23	posifeed		23.06.14	KEH	
24	outputs I/O-card		23.06.14	KEH	
25	inputs I/O-card		23.06.14	KEH	
26	inputs I/O-card		23.06.14	KEH	
27	fluff elemination + central lubrication		24.06.14	KEH	

			Datum		H.Stoll GmbH & Co. KG	STOLL	contents	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 2
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.

计算机 OKC5，识别 号: 267 956.00

插头连接器、传感器和执行器的区分代码

A__	套件
B	开关
E__	照明、通风
F__	保险管
J__	布线系统的电路板插头连接器 代表相应识别号 的最后三个数字(例如： Id.301023 -> J023)
K__	继电器
M__	马达
P__	信号设备
Q__	制动，磁铁
T__	变压器
W__	电缆
V__	干扰滤波器
XR__	布线系统的插头连接器 位于左侧控制箱（电缆出口）
XT__	变压器上的插头
XZ__	附属设备和开关装置的插头连接器

计算机 OKC5，识别 号: 267 956.00

识别符 EN 61346-2	名称	值/功能		识别号 CMS 530, 520C	
A1	控制箱			265 464 (530) 265 556 (520)	
A6	电池插件装置			301 027	
A7	开关电路板			259 000	
A8	针床保护罩磁性开关			264 696	
A10	纱线控制装置			237 124	
A12	辅助牵拉辊脉冲发生器			217 462	
A14	中央针床保护罩磁性开关			264 695	
A15	横移 - 限位开关			229 396	
A21	主开关			265 631	
A22	中央润滑油泵	部分选购		235 068	
A23re	长度测量装置	选购		257 282	
A23 左	长度测量装置	选购		257 283	
A24	震动自停 (压电)			220 011	
A26	左侧纱线张力器			241 345	
A27	右侧纱线张力器			241 346	
A28	光幕安全继电器			----	
A29	整流变压器电路板			267 335	
A30	积极送纱器	选购			
B10	右侧安全门开关			223 350	
B12	左侧安全门开关			223 350	
B_S14	牵拉辊关闭开关			026 259	
B15li	左侧纱线张力器	在A26组中		x	
B15re	右侧纱线张力器	在A27组中		x	
B_S16	防缠绕板微动开关			267 012	
B_S16a	前防缠绕板微动开关			222 063	
B20	牵拉梳顶部基准			231 516	
B21	底部牵拉梳基准			231 520	
B22	牵拉梳挡光板			243 355	
B_S23	牵拉梳盖板开关			026 259	
B_S24	牵拉梳钩开关			026 259	
B 27	中央润滑装置浮控开关	在A22组中		x	
B 28	中央润滑装置油压开关	在A22组中		x	
B_S30	辅助牵拉辊打开开关			026 259	
B31	吸尘装置涡轮温控开关	M 9 中		x	
B32	送纱器防缠绕板开关			008 529	

计算机 OKC5，识别 号: 267 956.00

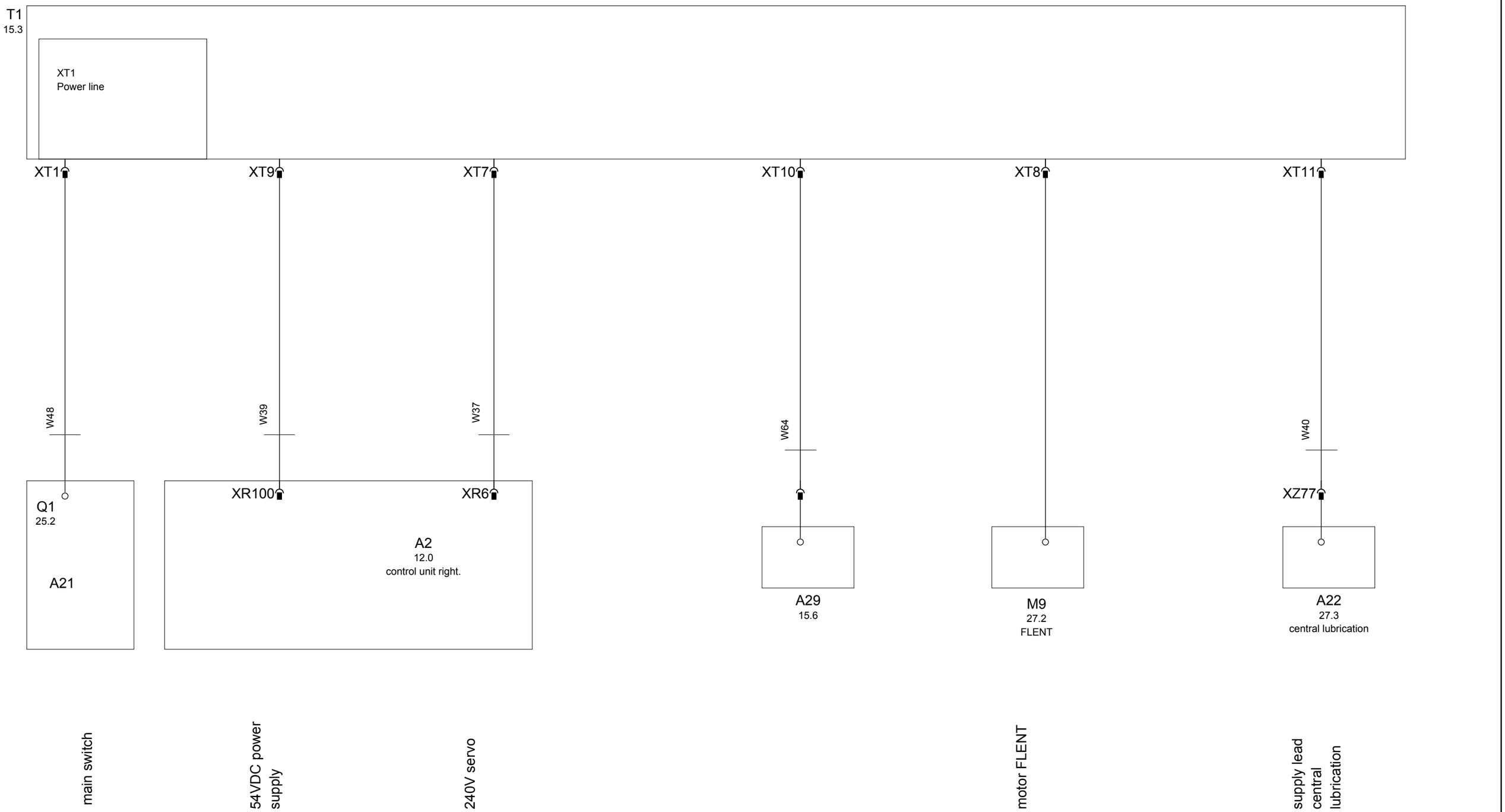
识别符 EN 61346-2	名称	值/功能		识别号 CMS 530, 520C	
B41li	左侧送纱器温控开关	M 7 中		x	
B41re	右侧送纱器温控开关	M 7 中		x	
B48	主开关的释放信号开关	在A21组中		236 065	
B_S49	牵拉梳盖板压下			026 259	
B50	安全继电器光幕层叠			----	
B51	安全光幕端装置			----	
B52	整流器温控开关	在A29组中		x	
E1	上部的机器照明			264759	
E3	驱动马达风扇			254 872	
E4	右侧控制箱（伺服）风扇	在A2组中		229 059	
Q1	马达保护开关	在A21组中		235 115	
F 8	伺服	8AT / 440V		241 866	
F11	电源	20AT / 80V		267 336	
F12	电源	20AT / 80V		267 336	
F20	吸尘装置 (FLENT)	8AT / 440V		241 866	
F_Si1	28V 保护（开关）	1.0 AF		008 748	
F_Si2	28V 长度测量设备	1.0 AF		008 748	
F_Si3	纱线控制装置保险	1.0 AF		008 748	
F_Si5	镇流伺服（在继电器板 J953/J007上）	1.6 AT /440V		236 229	
F_Si6	电池插件装置保险	6.3AT		026 809	
P1	整个指示灯			240 395	
P2	绿色指示灯	P1组中		x	
P2.1	墠恢膏摄	P1组中		x	
P3	信号发射器（警报器）	P1组中		x	
K15A	吸尘装置继电器	T1组中		267 334	
K16A	吸尘装置继电器	在A22组中		x	
M 1	驱动马达			240 740	
M 2	后针床横移马达			259 115	
M 3	牵拉马达			259 655	
M 4	牵拉梳马达			259 655	
M 5	辅助牵拉马达			264 923	
M 6	牵拉梳钩马达			259 009	
M 7	积极送纱器			219 800	

计算机 OKC5，识别 号: 267 956.00

识别符 EN 61346-2	名称	值/功能		识别号 CMS 530, 520C	
M 9	吸尘涡轮 (FLENT)			262 592	
M 14	中央润滑装置泵用电动机	在A22组中		x	
Q1	机器执行器磁铁	在A21组中		235 116	
Q2	操纵杆磁铁			026 233	
Q5	牵拉马达制动器	马达 M3 中		x	
Q6	牵拉梳马达制动器	马达 M4 中		x	
T1	主变压器			262 020	
W 1	主驱动马达电缆			262 235	
W 2	传动分解器电缆			262 236	
W 3	横移马达电缆			262 237	
W 4	横移分解器电缆			262 238	
W 9	织物牵拉马达电缆			240 291	
W11	牵拉梳马达电缆			260 324	
W12	辅助牵拉马达电缆			260 326	
W13	牵拉梳钩马达电缆			265 676	
W14	左侧送纱器电缆			260 328	
W15	右侧送纱器电缆			240 464	
W20	主牵拉开关电缆			240 294	
W22	横移限位开关电缆			262 240	
W25	右侧保护装置电缆			240 292	
W26	纱线张力器、指示灯、警报器			265 694	
W27	震动传感器电缆			266 268	
W28	牵拉梳开关电缆			240 518	
W29	辅助牵拉编码器电缆			262 241	
W30	启动电缆			265 698	
W31	长度测量设备电缆	选购		252 538	
W36	LED 照明电缆			257 239	
W37	伺服电源电缆			257 239	
W39	电源电缆			261 351	
W40	中央润滑电源电缆	部分选购		254 098	
W41	中央润滑控制电缆	部分选购		254 099	
W42	辅助牵拉开关电缆			240 472	
W43	牵拉梳钩开关电缆			240 309	
W44	主开关信号电缆			240 517	
W45	驱动风扇电缆			240 293	
W47	左侧保护装置电缆			253 620	

计算机 OKC5，识别 号: 267 956.00

识别符 EN 61346-2	名称	值/功能		识别号 CMS 530, 520C	
W48	主电源变压器电缆			250 364	
W49	纱线控制装置、指示灯电源电缆			239 749	
W50	DUT电缆			235 283	
W51	显示器端口电缆			242 421	
W57	电池插件装置电缆			260 330	
W58	牵拉分解器电缆			260 325	
W59	牵拉梳分解器电缆			260 327	
W60	电缆 +40V ADF			----	
W61	数据伺服电缆 ADF			----	
W62	ADF安全光幕电缆			----	
W63	右侧安全门电缆			265 696	
V1	过滤器电缆			265 315	



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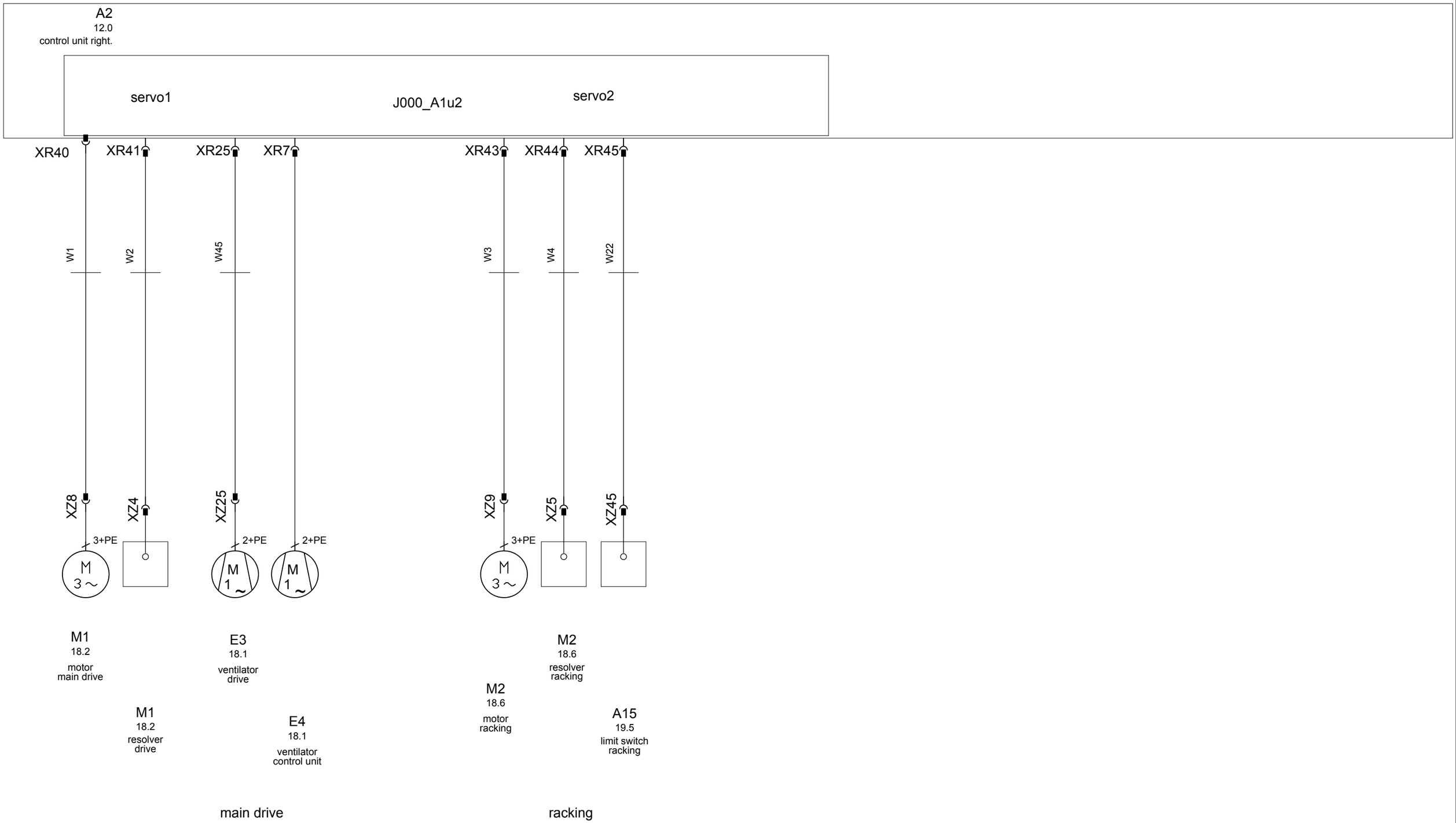
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 7
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.



			Datum		H.Stoll GmbH & Co. KG	STOLL	block diagram servo drive and racking	Id.Nr. 267956	=
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			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 8
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.

A2
12.0
control unit

XR113 XR152 XR26 XR69 XR130 XR154 XR28 XR29 XR164 XR165 XR151 XR121

W30 W47 W25 W63 W26 W27 W44 W36 W31 W31 W57

XZ7 XZ22li XZ58li XZ23re XZ24 XZ58re XZ18 XZ19 XZ21 XZ20 XZ_LED XZ164 XZ165 X_BAT

XZ6
W49

A7
26.3
engaging

A26
lateral slack tensioner left

B12
25.6
protective hood left.

A27
lateral slack tensioner right

A8/A14
shrouding covers

B10
25.6
protective hood right.

P1
24.2
warning light

A10
26.5
FKE

A24
26.1
Piezo rear

A24
26.1
Piezo front

A21
14.2
signals main switch

E1
24.1
machines lighting

A23re
ASCON right

A23li
ASCON left

A6
16.2
batterie

8 10

			Datum		H.Stoll GmbH & Co. KG	STOLL	block diagram signals control unit	Id.Nr. 267956	=
			Bearb.	KEH	circuit diagram 223				+
			Gepr.	18.07.14				Ae.St.00	Bl. 9
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.

A2
12.0
control unit

WA_Servo J018

XR14 XR180 XR186 XR15 XR181 XR187 XR17 XR189 XR11 XR12 XR35 XR190 XR188

W9 W58 W20 W11 W59 W28 W13 W43 W14 W15 W12 W29 W42

XZ14 XZ31 XZ59 XZ39 XZ15 XZ32 XZ37 XZ38 XZ17 XZ11 XZ12 XZ16 XZ30 XZ36

3+PE

M3
20.0
motor
main take down

B_S16
20.7
winding plate
Take
down rear

M3
20.0
Resolver
Take down

B_S16a
20.6
winding plate
Take
down front

B14
20.6
switch
Take down

Take down

M4
21.0
motor
comb

M3
20.0
resolver
comb

B20
21.6
comb top

B21
21.6
comb below

B_S49
21.8
protective flap comb
pressed

B_S23
21.8
protective flap comb
open

B22
21.7
comb light barrier

comb

M6
21.4
motor
comb hook

B_S24
21.9
switch
comb hook

comb hook

M7_LI
23.2
posifeed
left

M7_RE
23.6
posifeed
right

posifeed

M5
22.0
motor
auxiliary take down

A12
encoder
auxiliary take down

B_S30
22.6
switch
auxilary
take down

auxiliary take down

Only CMS 520, 530 and 530C

9

11

			Datum		H.Stoll GmbH & Co. KG	STOLL	block diagram WA Servo	Id.Nr. 267956
			Bearb.	KEH	circuit diagram 223			Ae.St.00
			Gepr.	18.07.14				Bl. 10 / 27 Bl.
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	

A2
12.0
control unit

IPC

X_DP

XR216

XR161

XR136

XR332

XR137

XR333

XR133

W51

W50

XZ83FFre

XZ136

XD325

XZ137

XD333

Shi
carriage
rear

Svo
carriage
front

FF
YC

Displayport

encoder rear

carriage rear

encoder front

carriage front

CAN-BUS

			Datum		H.Stoll GmbH & Co. KG	STOLL	block diagram display carriage	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 11
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.

A2
11.0

wiring system

J000_2=servo
J023_2=I/O
J039=IPC
JERW
J020_2=power supply
J018_2=WA_Servo

J000_1=servo
J023_1=I/O
J009=Master_CPU
J014=NCPU
J040=SM_Endstufe
J020_1=power supply
J018_1=WA_Servo
Batterie

11

back side

XR6=power supply servo
XR7=ventilator_1_control unit
XR11=posifeed left
XR12=posifeed right
XR14=motor take down
XR15=motor comb
XR17=motor comb hook
XR25=ventilator main drive motor
XR26=protectiv devices
XR28=signals main switch
XR29=lighting
XR35=motor auxiliary take down
XR40=motor Servo1
XR41=resolver Servo1

XR43=motor Servo2
XR44=resolver Servo2
XR45=limit switch Servo2
XR68=central lubrication
XR69=light curtain
XR100=power supply supply lead 54V DC
XR113=engaging rod
XR121=reserve
XR130=FKE, lamp
XR133=CAN

XR136=needle impuls rear
XR137=needle impuls front
XR151=batterie
XR152=signals, limit switch left.
XR154=piezo
XR161=YarnCarrier left
XR164=ASCON right
XR165=ASCON left

XR176=data left/right--ADF
XR177=40V left--ADF
XR180=resolver main take down
XR181=resolver comb
XR186=switch main take down
XR187=switch comb
XR188=switch auxiliary take down
XR189=switch comb hook
XR190=resolver auxiliary take down

13

			Datum		H.Stoll GmbH & Co. KG	STOLL	connector definition wiring system	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 12
Änderung	Datum	Name	Norm		Urspr.	Ers.f. / Ers.d.			27 Bl.

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

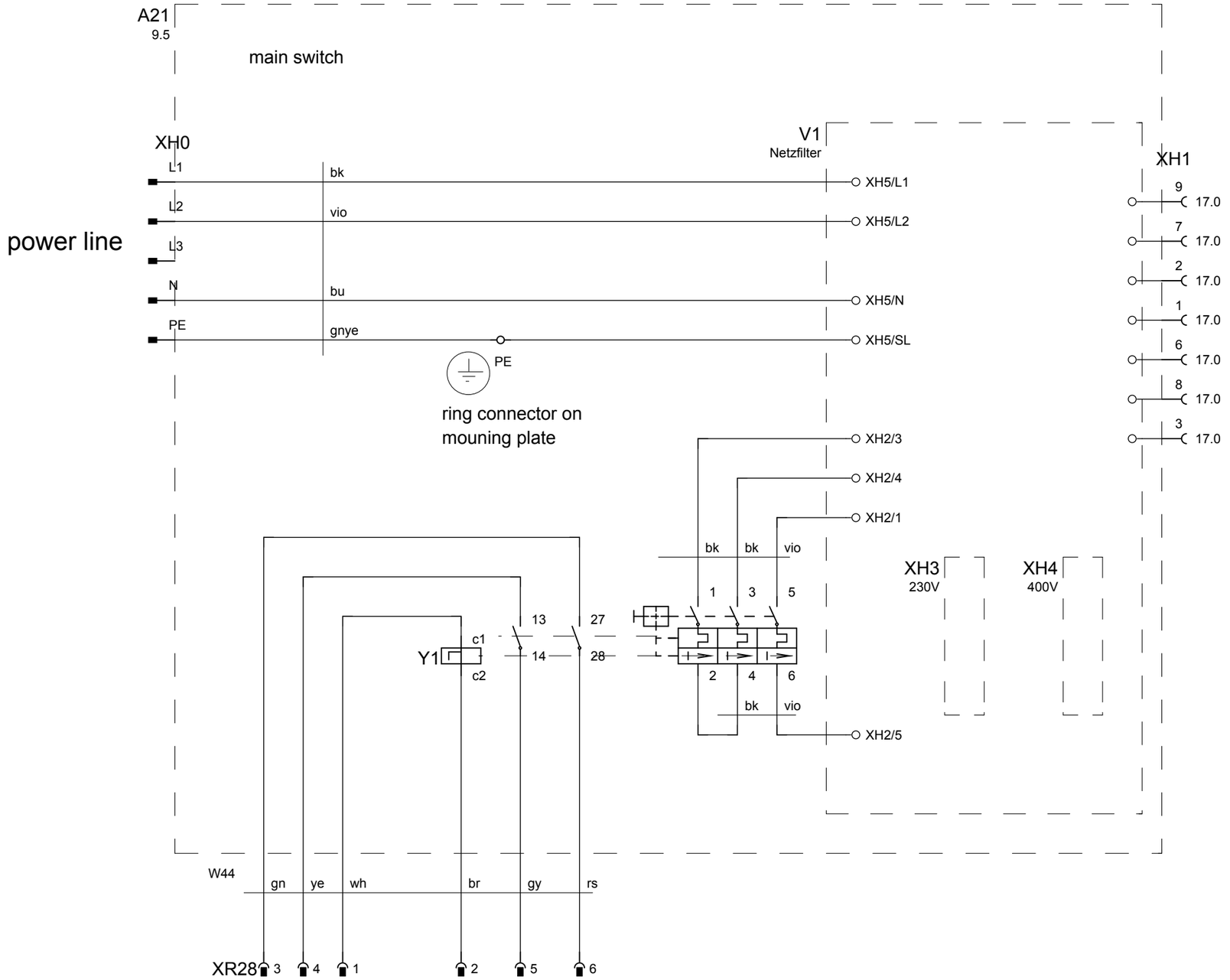
XZ39=winding plate Take down rear.

XZ58re=protective hood right

XZ59=winding plate Take down front.

XZ45=limit switch racking

			Datum		H.Stoll GmbH & Co. KG	STOLL	connector definition connectors external	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 13
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.



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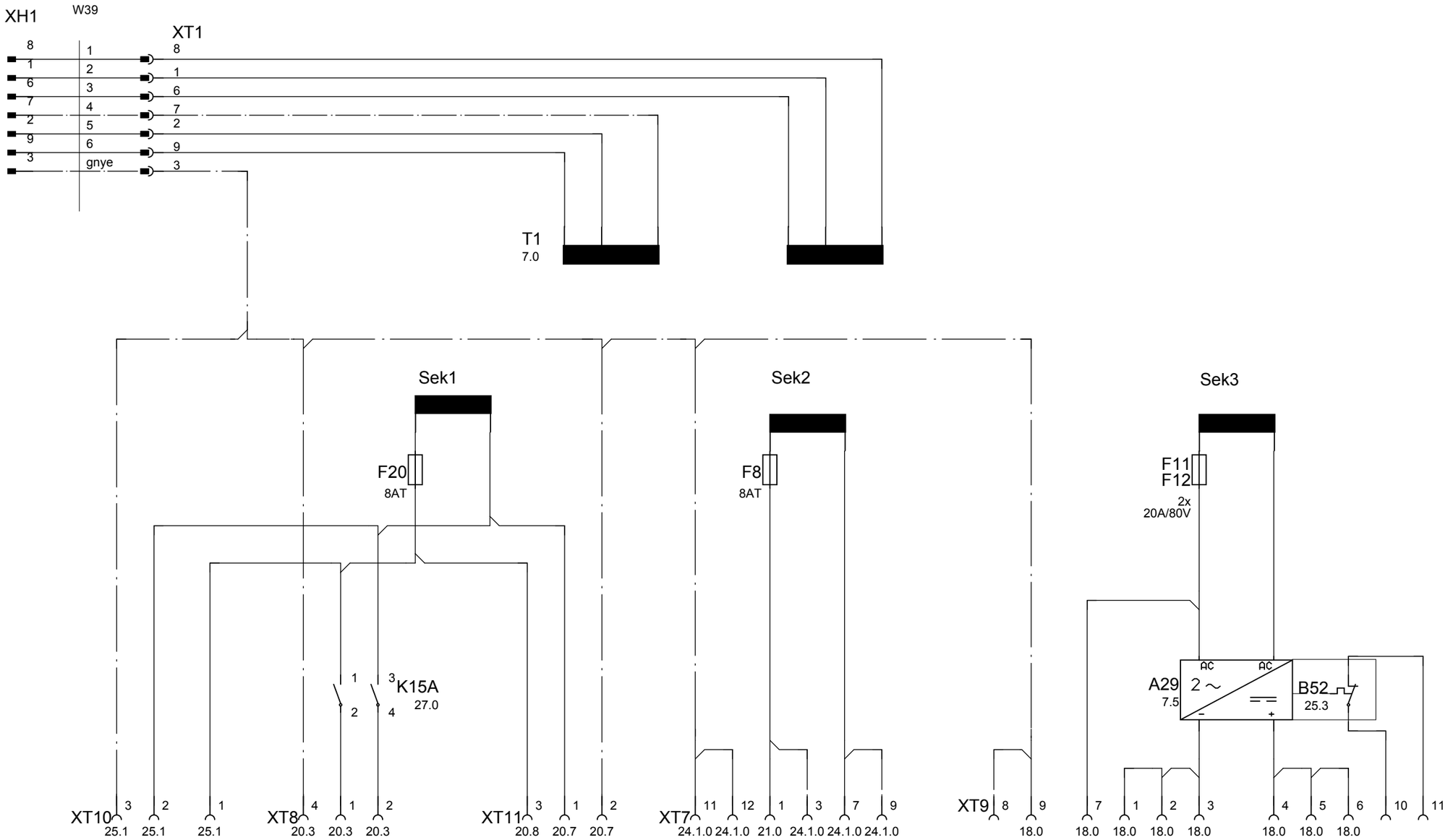
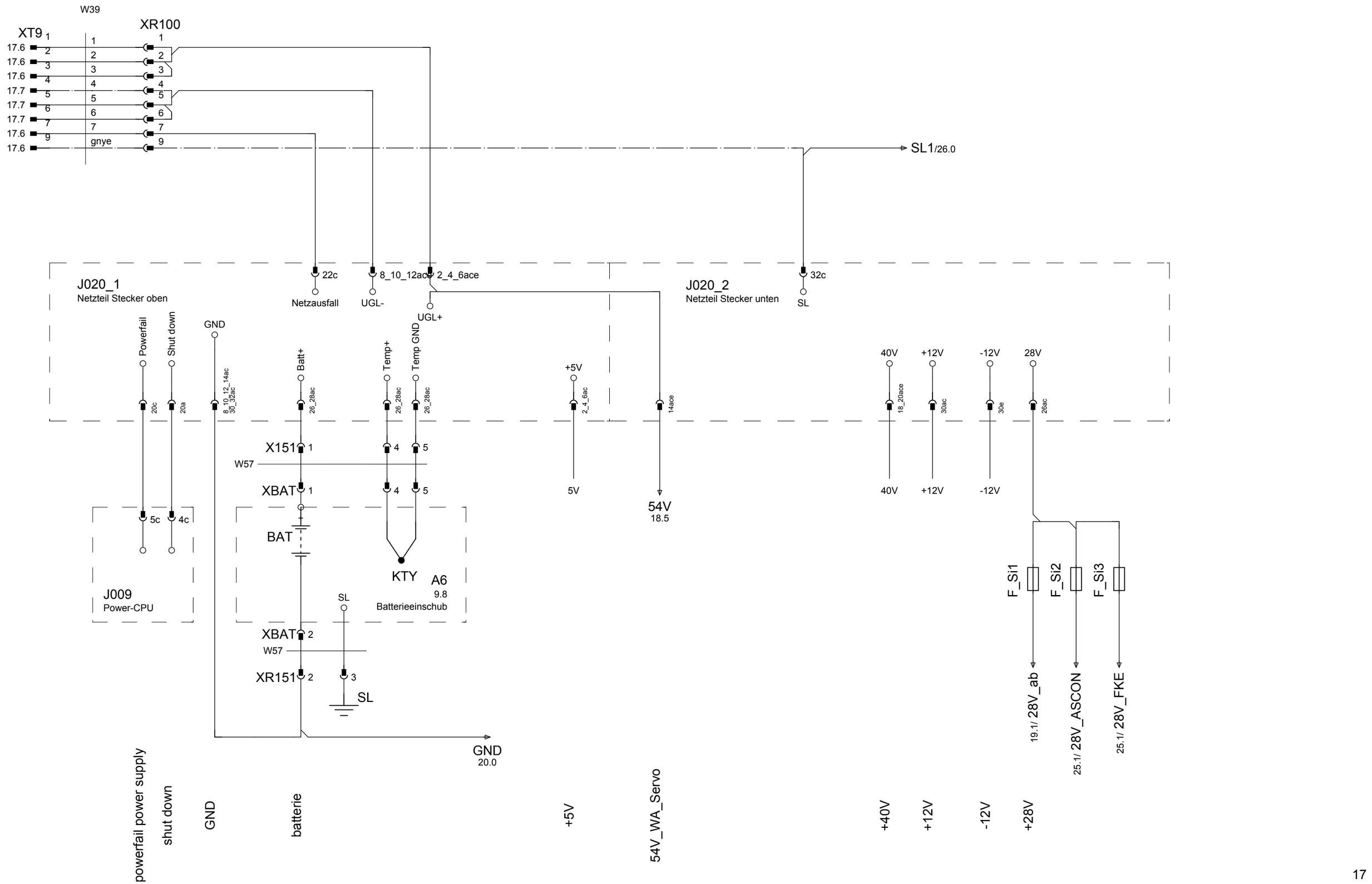


posifeed FLENT lubrication Servo power supply + WAServo

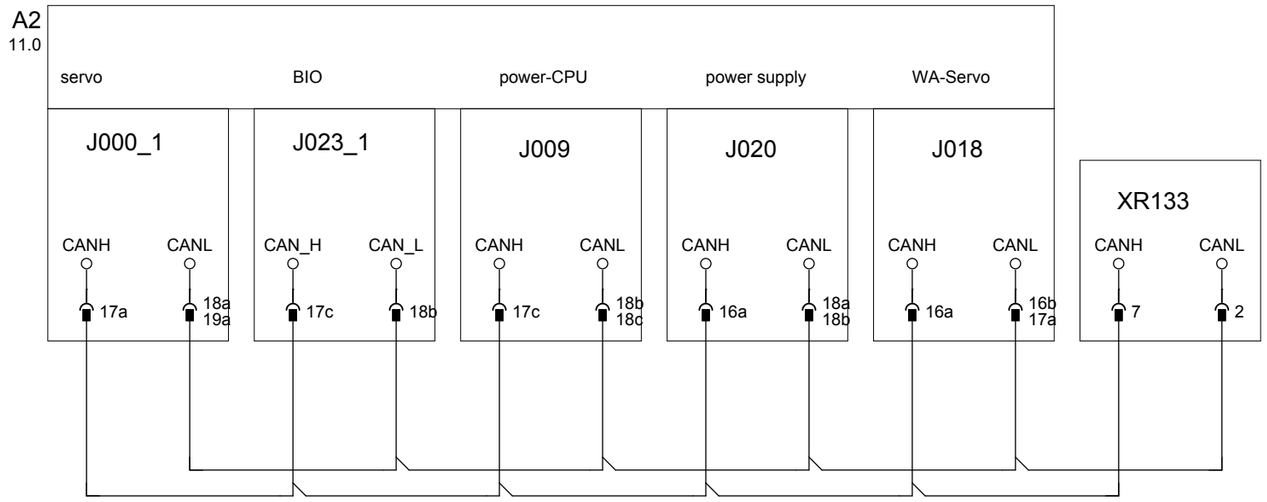
			Datum		H.Stoll GmbH & Co. KG		transformer	Id.Nr. 267956	=
			Bearb.	KEH		STOLL			+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 15
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.



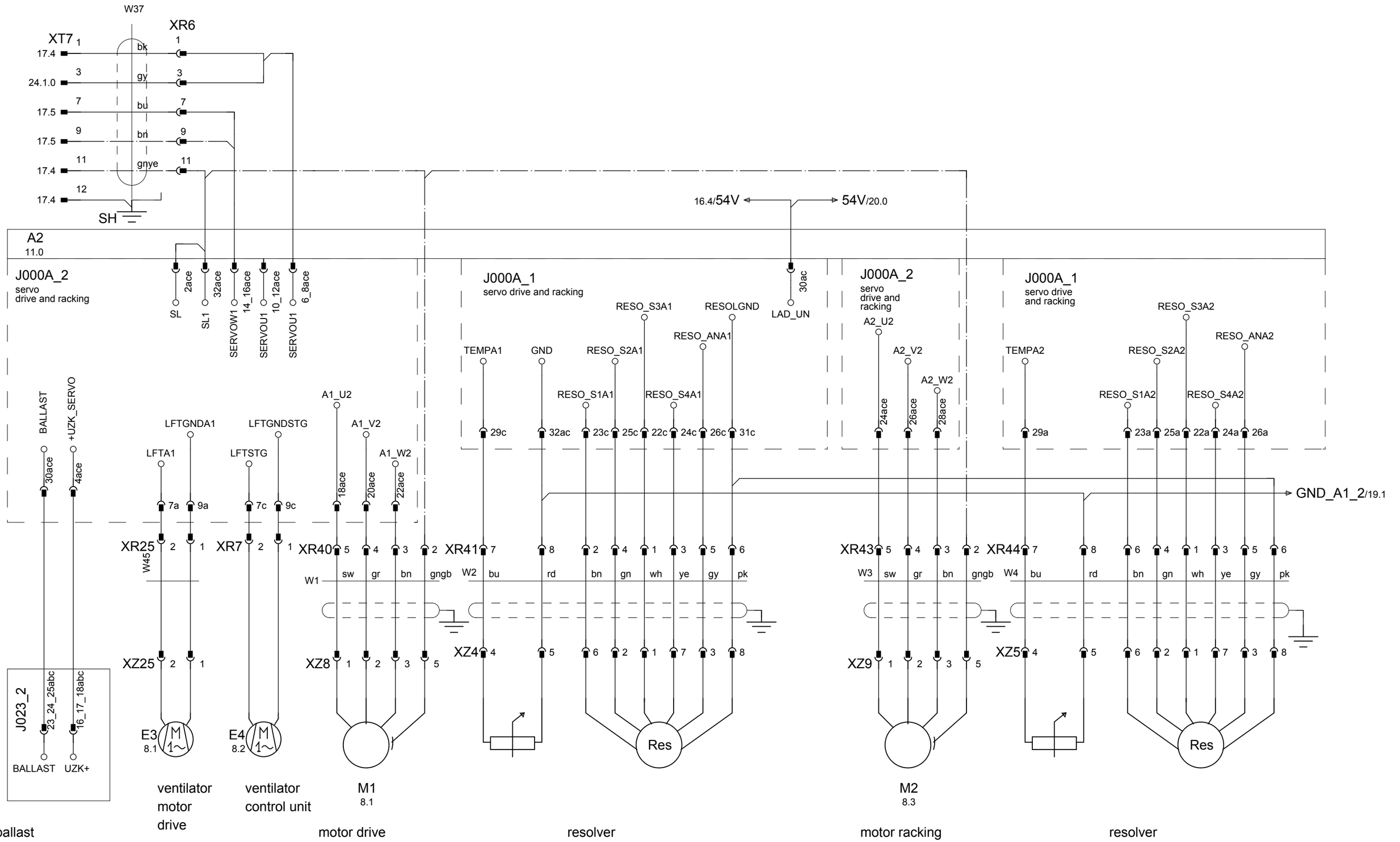
15

17

			Datum		H.Stoll GmbH & Co. KG	STOLL	power supply	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 16
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.



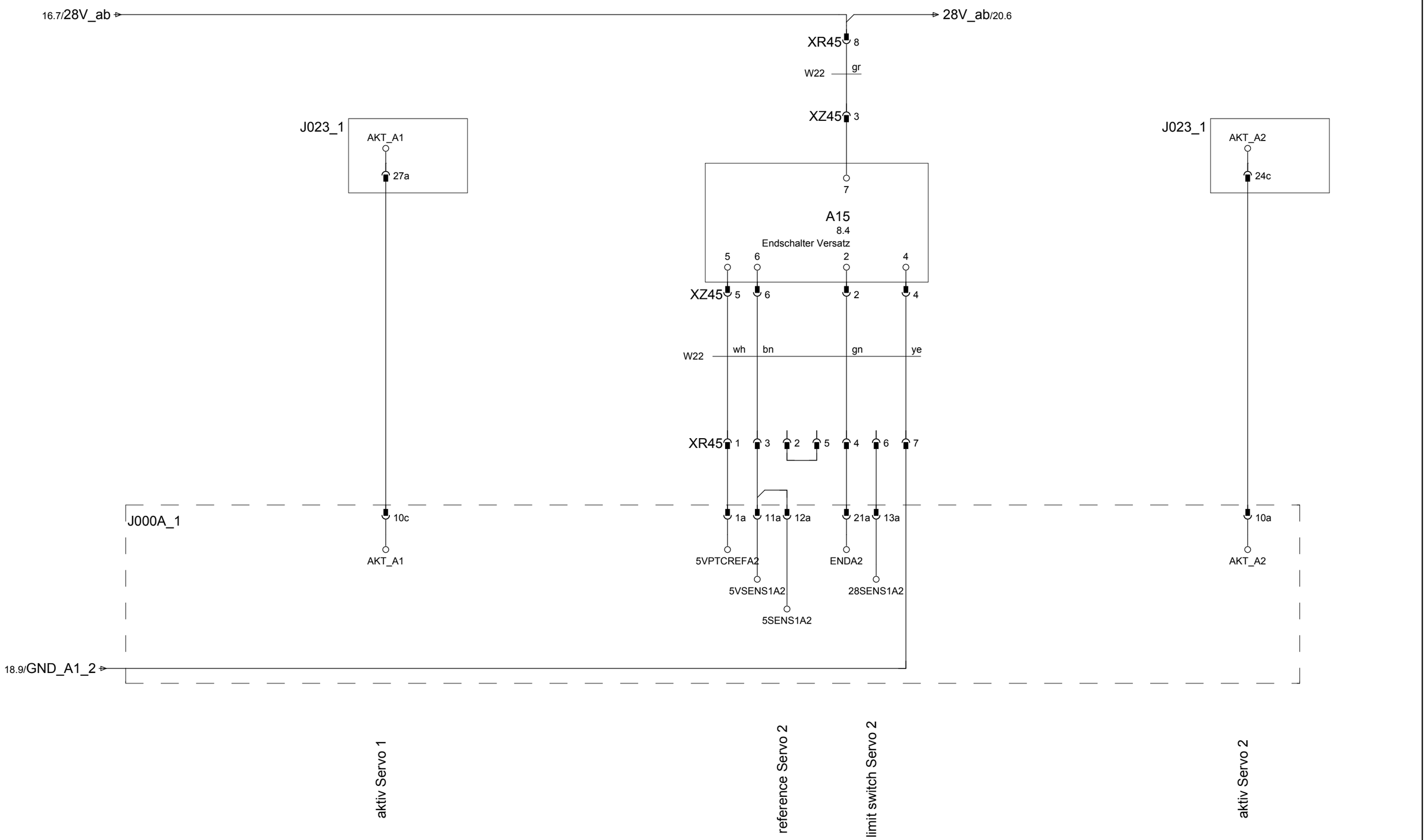
			Datum		H.Stoll GmbH & Co. KG	STOLL	CAN-BUS	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 17
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.



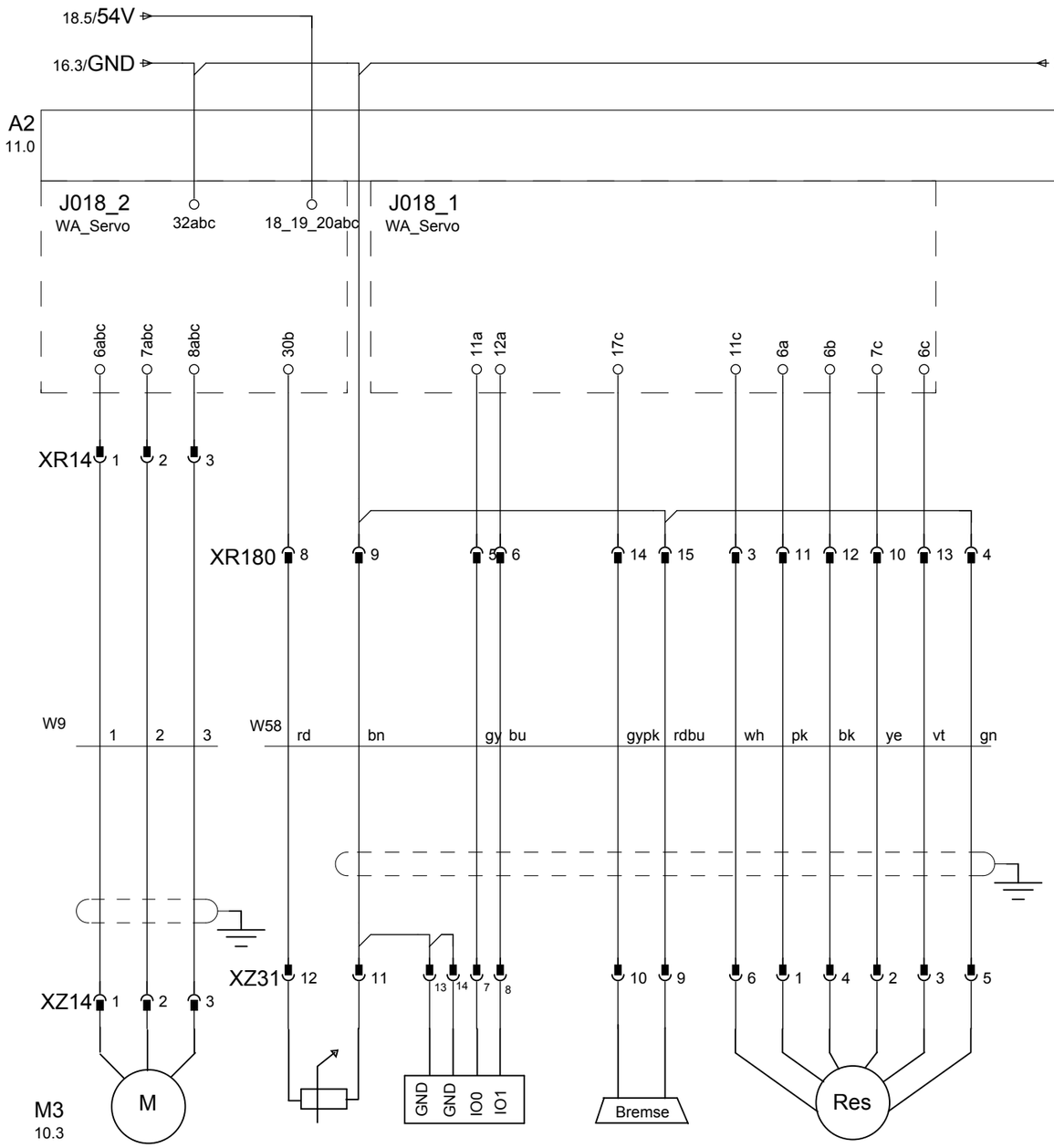
17

19

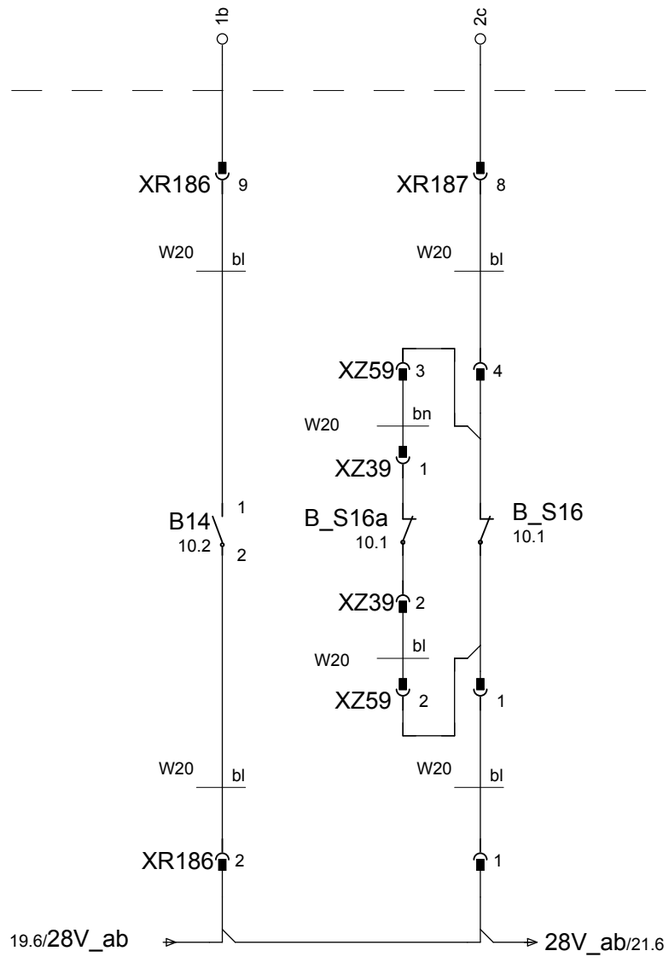
			Datum		H.Stoll GmbH & Co. KG	STOLL	servo drive and racking	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 18
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.



			Datum		H.Stoll GmbH & Co. KG	STOLL	inputs servo HA+V	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 19
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.



motor main take down



Take down open

winding plate
Take down

			Datum		H.Stoll GmbH & Co. KG	STOLL	take-down	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 20
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.

20.4/GND

GND/21.6

A2
11.0

J018_1
WA_Servo

J018_2
WA_Servo

J018_1
WA_Servo

J018_2
WA_Servo

J018_1
WA-Servo

24abc 25abc 26abc 30a 12c 12b 17b 11b 9b 9c 9a 8a 6abc 7abc 8abc 1a 1c 8b 3c 3b 7a

XR15 1 2 3

XR181 8 9 5 6 14 15 3 11 12 10 13 4

XR17 1 2 3

XR187 10 9 11 12 7

XR189 7

W28.1 gn W28.2 gn W28.3 sw W28.4 br W28.5 bl W43 bl

XZ38 2 XZ37 2

B21 10.4 B20 10.3 B22 10.5 B_S49 10.4 B_S23 10.4 B_S24 10.6

XZ38 1 3 XZ37 1 3

W28 br ws W28 br ws W28 br bl W28 bl W28 bl W43 bl

XR187 1 13 2 14 3 15 4 5

XR189 1

20.7/28V_ab
21.4/GND

28V_ab/22.6
GND/22.0

W11 1 2 3

W59 rt br gr bl grpk rtbl ws pk sw ge vio gn

W13 1 2 3

XZ32 12 11 13 14 7 8

XZ15 1 2 3

XZ17 1 2 3

GND GND IO0 IO1

Bremse

Res

M4
10.2

M

M6
10.6

M

motor comb

motor comb hook

comb below

comb top

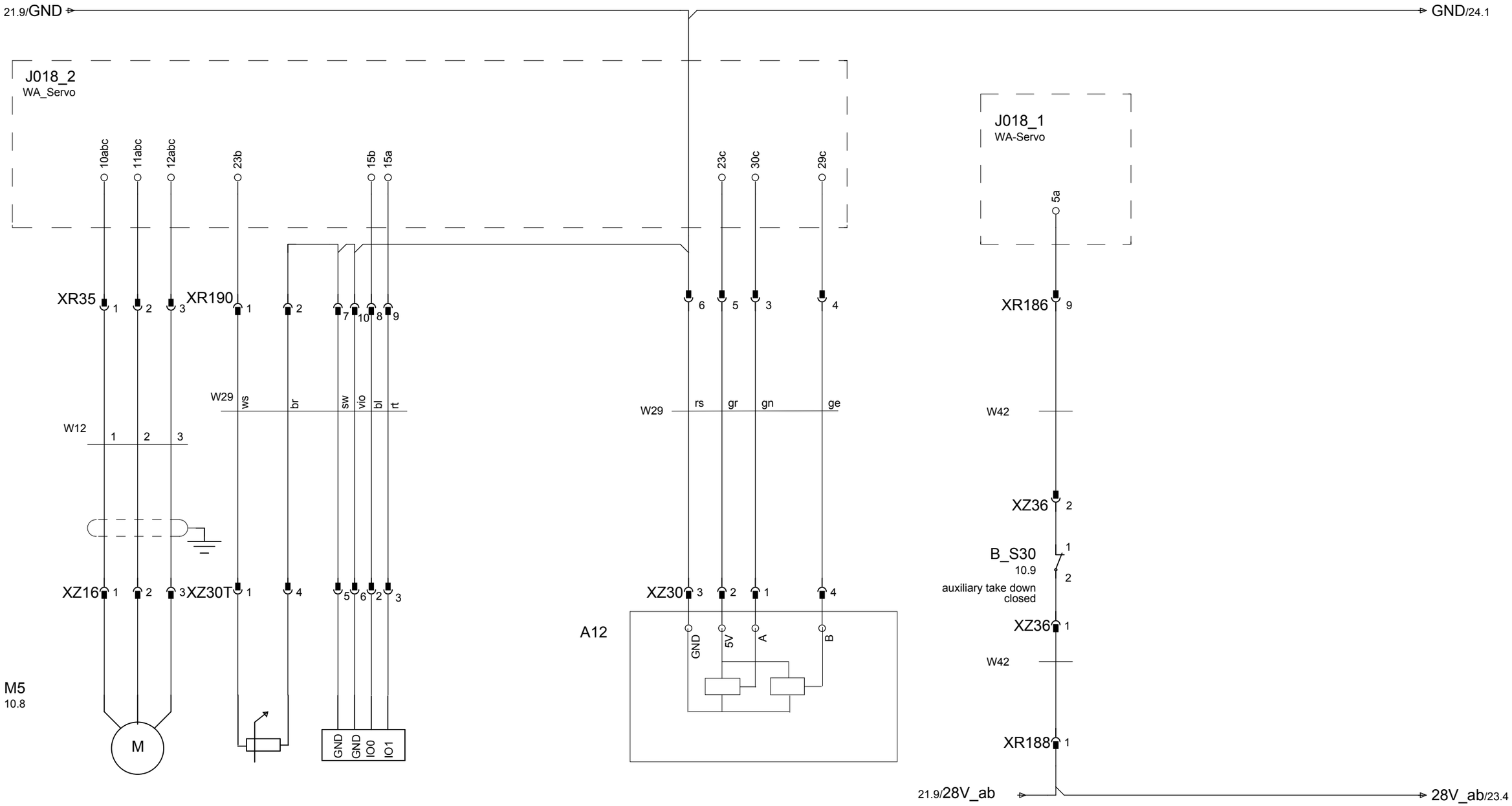
Light barrier comb

protective flap comb squeezed

protective flap comb ok

comb hook open

			Datum		H.Stoll GmbH & Co. KG	STOLL	comb	Id.Nr. 267956 = +
			Bearb.	KEH				
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00 Bl. 21
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	27 Bl.



motor auxilary take down

motor identification

auxiliary
take down IMP

auxilary take down
closed

			Datum		H.Stoll GmbH & Co. KG	STOLL	auxilary take down	Id.Nr. 267956 = +
			Bearb.	KEH				
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00 Bl. 22
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	27 Bl.

23.9/SL

SL/23.0

J018_1

28abc 29abc 30abc 8c

XR11 1 2 3 6

XR11 4

4

W14

XZ11 7

B41LI

thermo switch

XZ11 8

W14 1 2 3 GNYE

XZ11 5

B32LI

winding plate

XZ11 1 2 3 6

XZ11 4

M7_LI

10.7

posifeed left

M 3~

W14 5

XR11 5

22.8/28V_ab

J018_2

2abc 3abc 4abc

XR12 3 2 1 6

W15 1 2 3 GNYE

XZ12 1 2 3 6

M7_RE

10.7

posifeed right

M 3~

J018_1

8c

XR12 4

4

W15

XZ12 7

B41RE

thermo switch

XZ12 8

XZ12 5

B32RE

winding plate

XZ12 4

W15 5

XR12 5

28V_ab/25.0

posifeed left

fault posifeed left

posifeed right

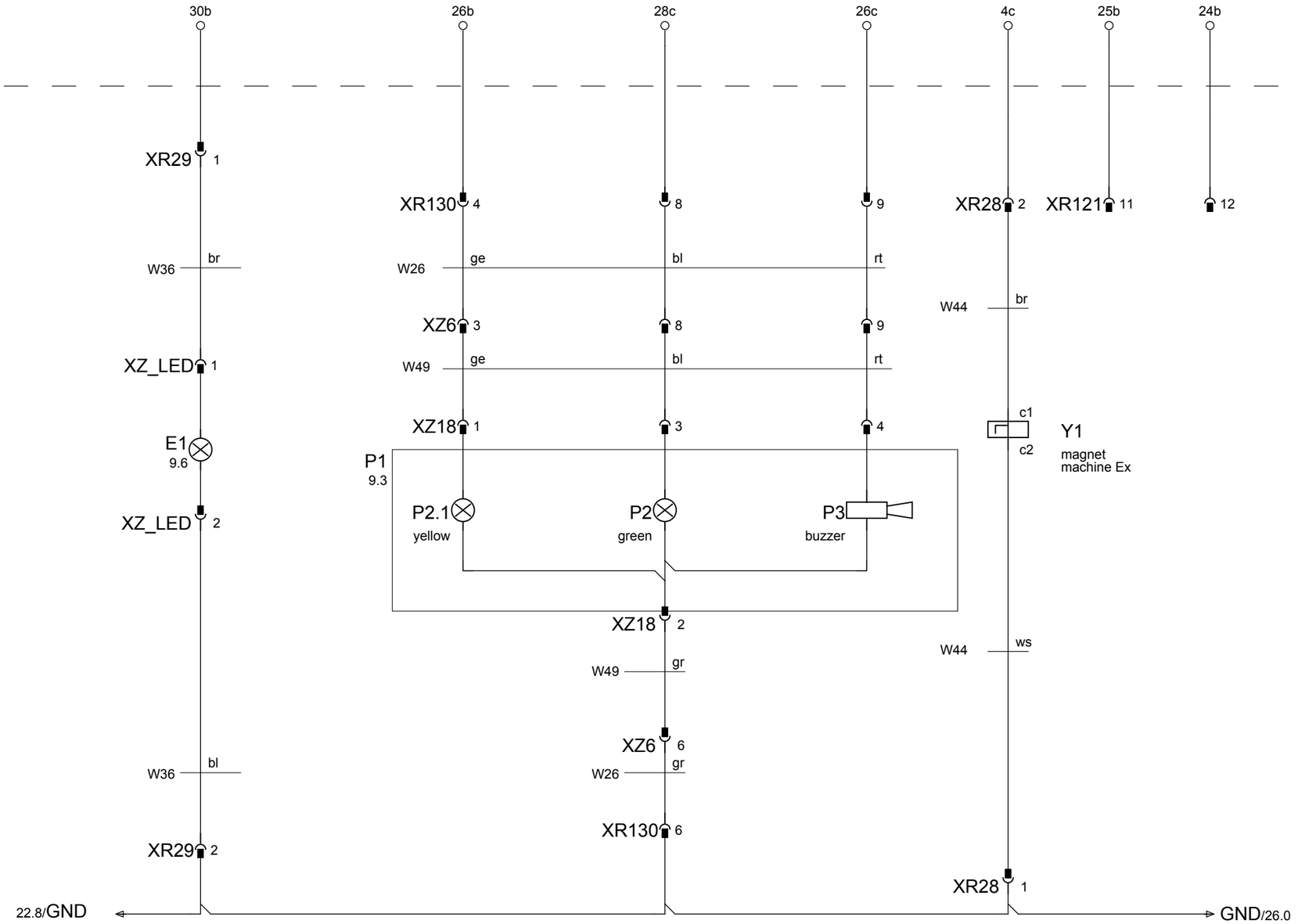
fault posifeed right

Only CMS 520,530 and 520C

			Datum		H.Stoll GmbH & Co. KG	STOLL	posifeed	Id.Nr. 267956	=
			Bearb.	KEH					+
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00	Bl. 23
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.		27 Bl.

A2
11.0

J023_1
I/O-card



lighting on

warning light yellow

warning light green

buzzer

machine Ex

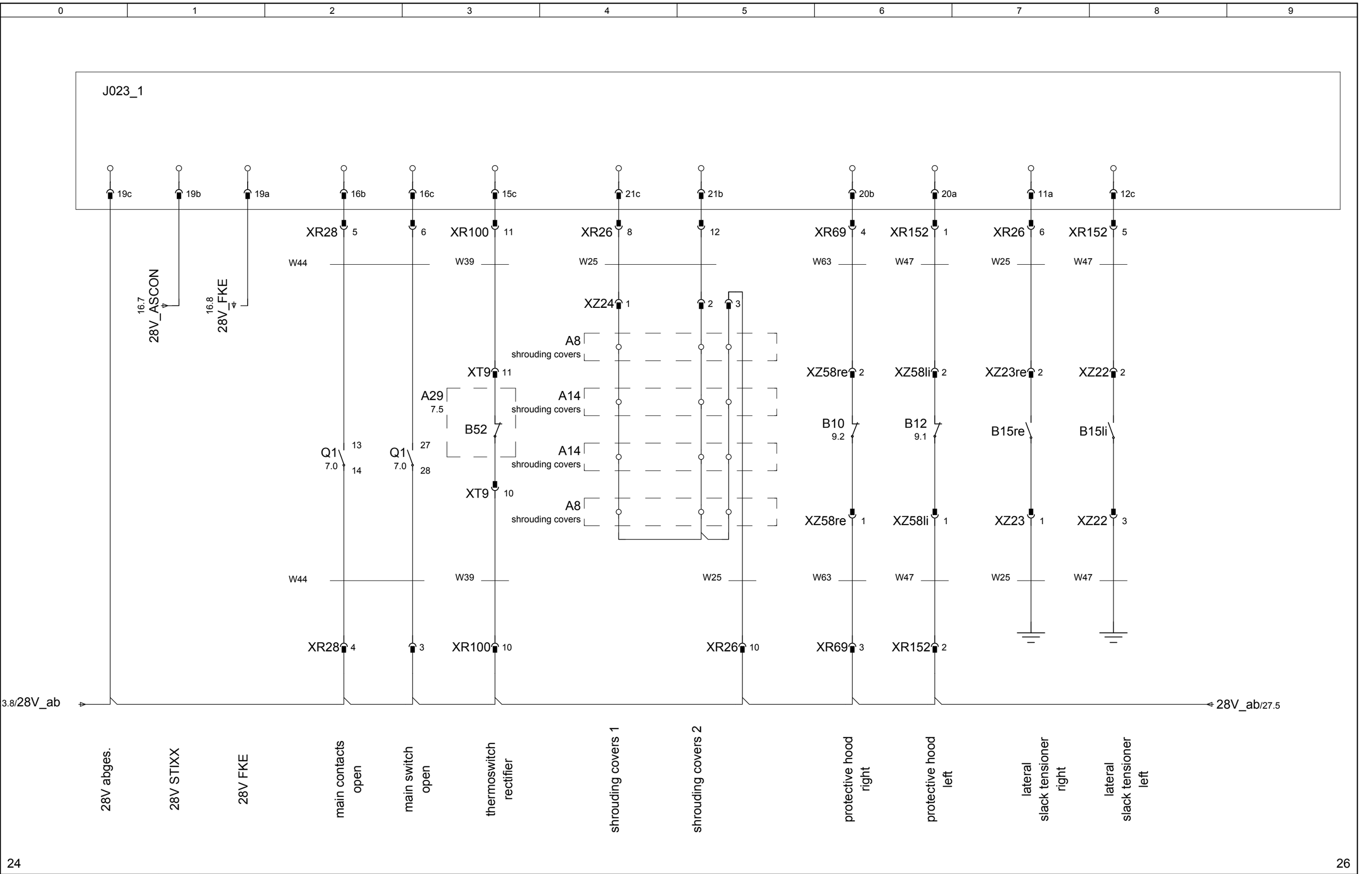
Sintral OUT1

Sintral OUT2

23

25

			Datum		H.Stoll GmbH & Co. KG	STOLL	outputs I/O-card	Id.Nr. 267956
			Bearb.	KEH				
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	Bl. 24 / 27 Bl.



			Datum		H.Stoll GmbH & Co. KG	STOLL	inputs I/O-card	Id.Nr. 267956 = +
			Bearb.	KEH				
			Gepr.	18.07.14	circuit diagram 223			Ae.St.00 Bl. 25
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	27 Bl.

A1

J023_1
I/O-Karte

8a 8b 27c 20c 2c 8c 9b 12b 9c

XR154 1 — XR154 4

A24 9.5 Piezo
A24 9.5 Piezo
XZ21 3 1
W27
XR154 2 3

A24 9.5 Piezo
A24 9.5 Piezo
XZ20 3 1
W27
XR154 5 6

XR113 1 7 4 5 6 2 3
W30 ws bl ge gr rs br gn
XZ7 1 7 4 5 6 2 3

A7
9.0
card
engaging rod

Y4

28V_FKE
XR130 7 3 1
W26 rs gn ws
XZ6 7 3 1
W49 rs gn ws
XZ19 1 3 2

A10
9.4
FKE

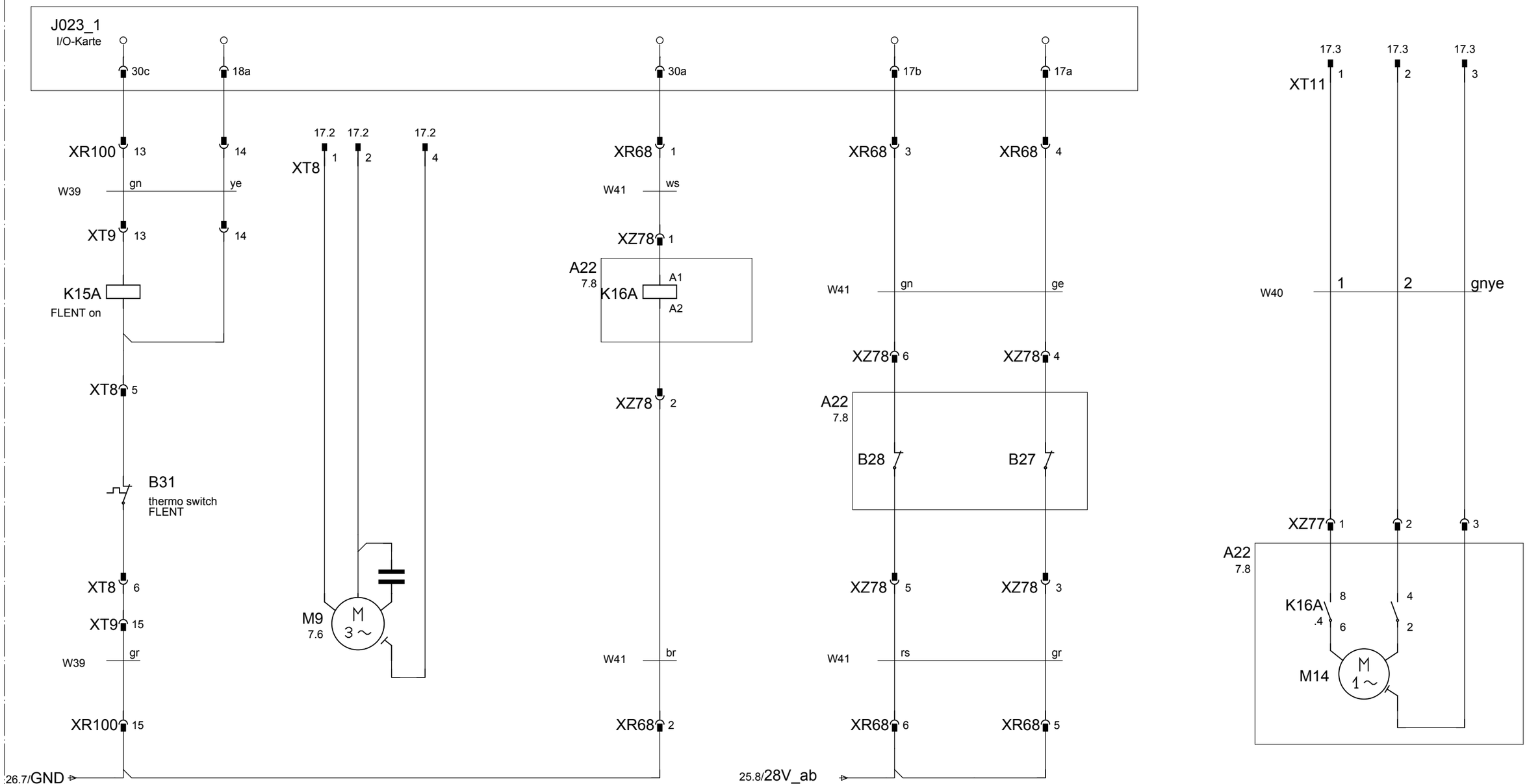
XZ19 4 br
W49
XZ6 2
W26 br
XR130 2

24.6/GND
16.6/SL1

GND/27.0
SL1

Piezo NB rear
Piezo NB front
magnet engaging rod
Hardware-switch
5VPTC
potentiometer engaging rod
SW-switch
magnet GND
DGND
burl big
burl small

			Datum		H.Stoll GmbH & Co. KG	STOLL	inputs I/O-card	Id.Nr. 267956 = +
			Bearb.	KEH	circuit diagram 223			Ae.St.00 Bl. 26
			Gepr.	18.07.14				27 Bl.
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	



1 – 2 15.2
3 – 4 15.2

FLENT on

fault FLENT

FLENT motor

not CMS 502

Only CMS 520,530 and 520C

2 – 4 .8
6 – 8 .8

central lubrication pump on

central lubrication pressure switch

central lubrication level

central lubrication motor

			Datum		H.Stoll GmbH & Co. KG	STOLL	fluff elemination + central lubrication	Id.Nr. 267956
			Bearb.	KEH	circuit diagram 223			Ae.St.00
			Gepr.	18.07.14				Bl. 27
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.	27 Bl.