AANSLUITKLEM KLEMMENKAST
ANSCHLUSSKLEMME KLEMMKASTEN
TERMINAL CONNECTION BOX

AANSLUITKLEM BEDIENINGSKAST
ANSCHLUSSKLEMME STEUERPULT
TERMINAL CONTROL BOX

AANSLUITKLEM TRANSISTOR
ANSCHLUSSKLEMME TRANSISTOR
TERMINAL TRANSISTOR

AANSLUITKLEM PLC
ANSCHLUSSKLEMME SPS
TERMINAL PLC

AANSLUITKLEM PLC–SLAVE
ANSCHLUSSKLEMME SPS–SLAVE
TERMINAL PLC–SLAVE

TYPE	OMSCHRIJVING UMSCHREIBUNG DESCRIPTION	PLC PROG: SPS PROG: PLC PROG:
HL190H20	MODULAR HYBRID	HL190_H_20_01B
HL160H20	MODULAR HYBRID	HL160_H_20_01B

REV.	DATUM DATUM DATE	OPMERKING BEMERKUNG REMARK
B	16–05–17	FEEDBACK INPUT

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INDEX BLAD
INDEX BLATT
INDEX SHEET

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EQ–22–001		B	Rothenbusch
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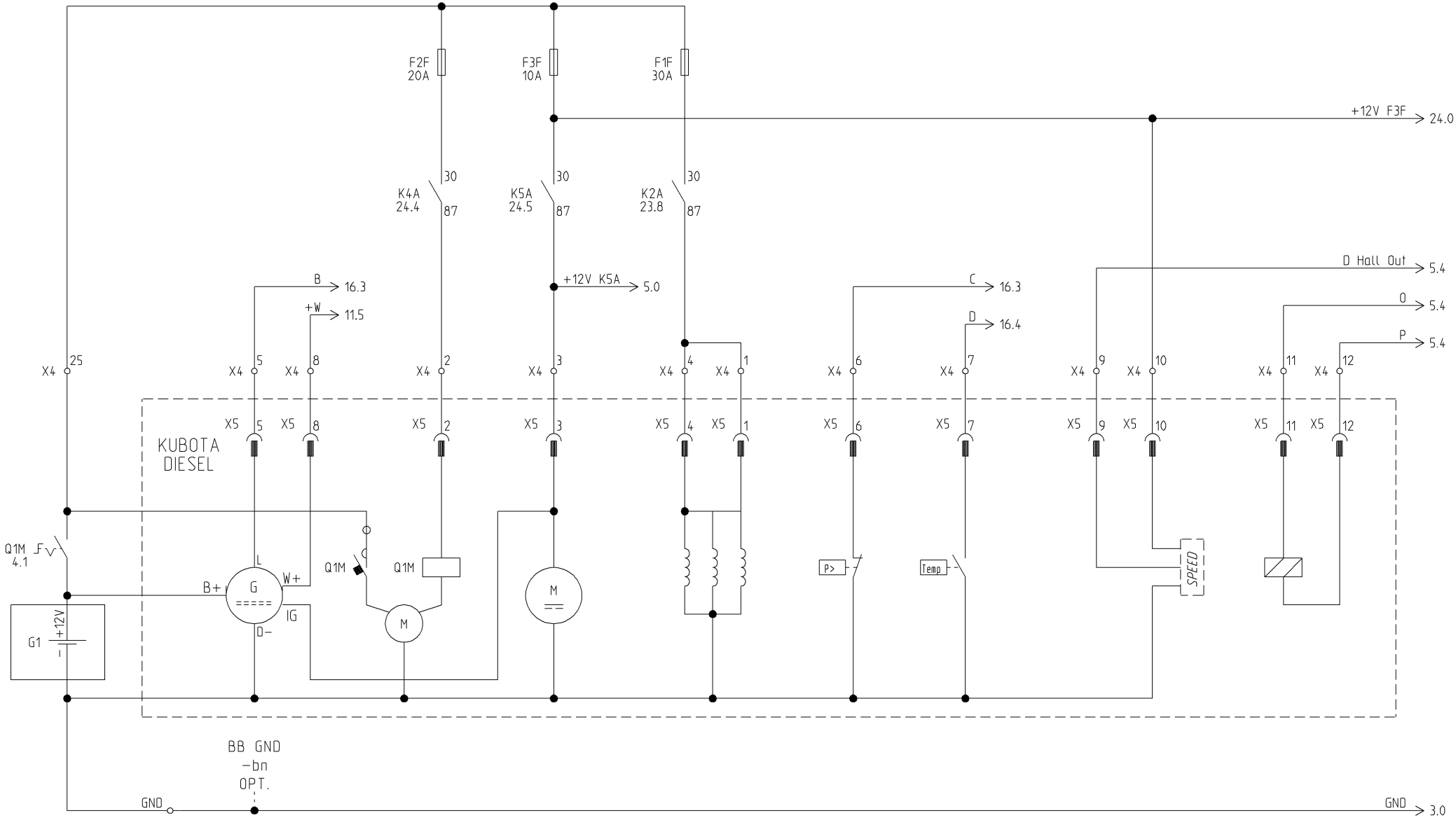

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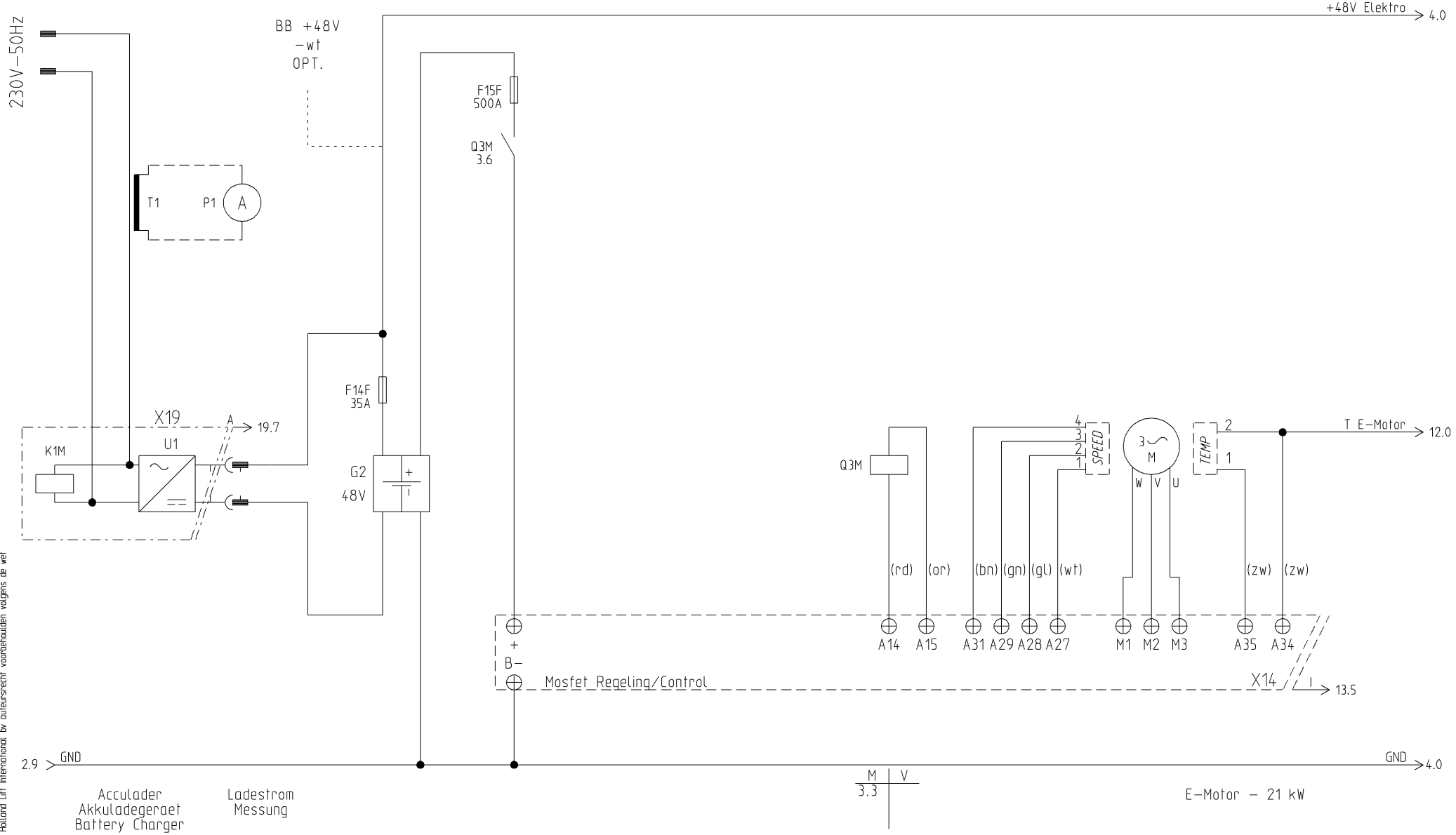
STROOMKRINGSCHEMA
STROMLAUFPLAN
CIRCUIT DIAGRAM

Projekt: EQ−22−001	Zeichnungsnummer:	Rev.: B	erstellt von: Rothenbusch
Datum: 16.05.2017	Anlage: =	Ort: +	Blatt: 2



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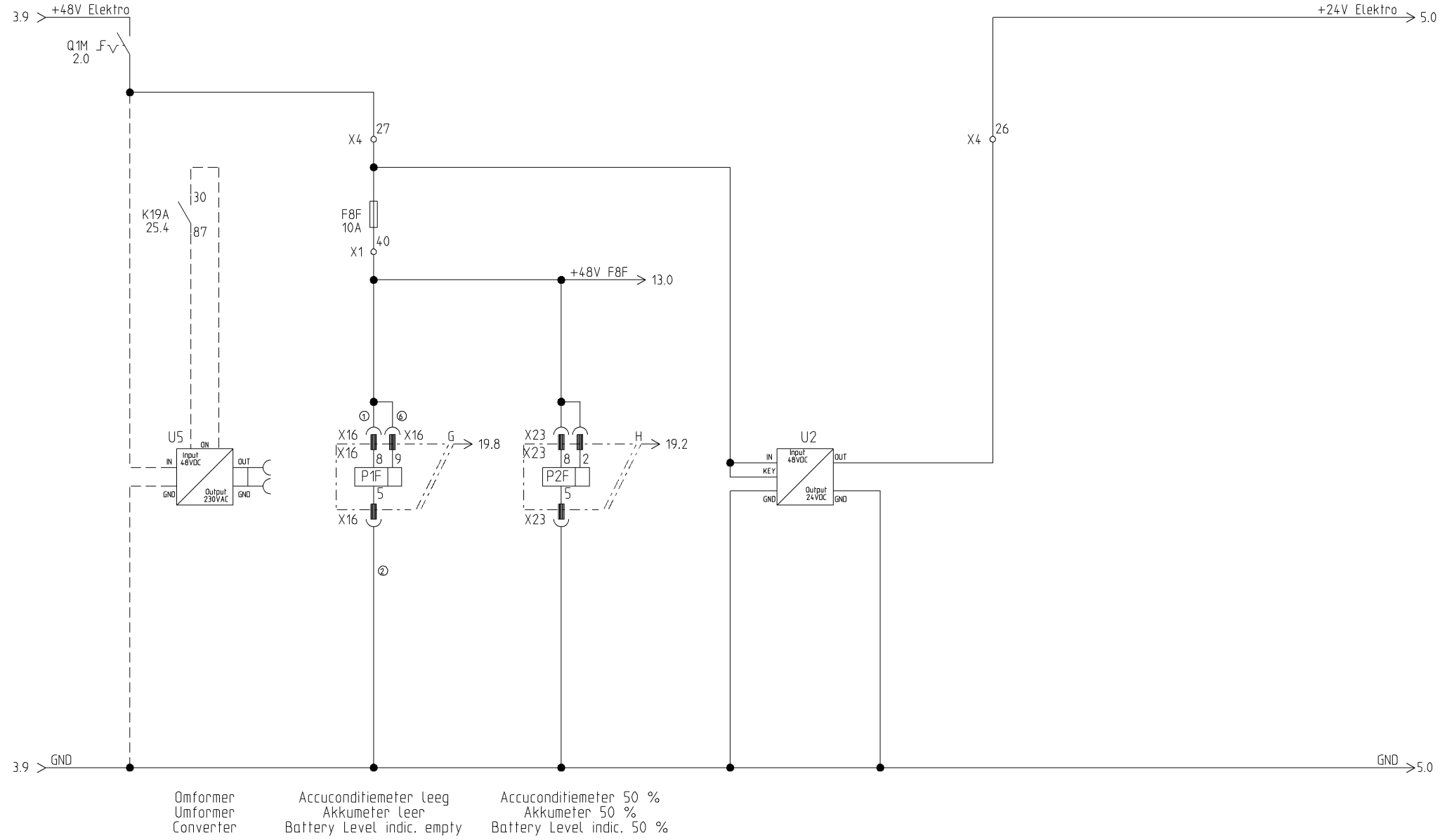

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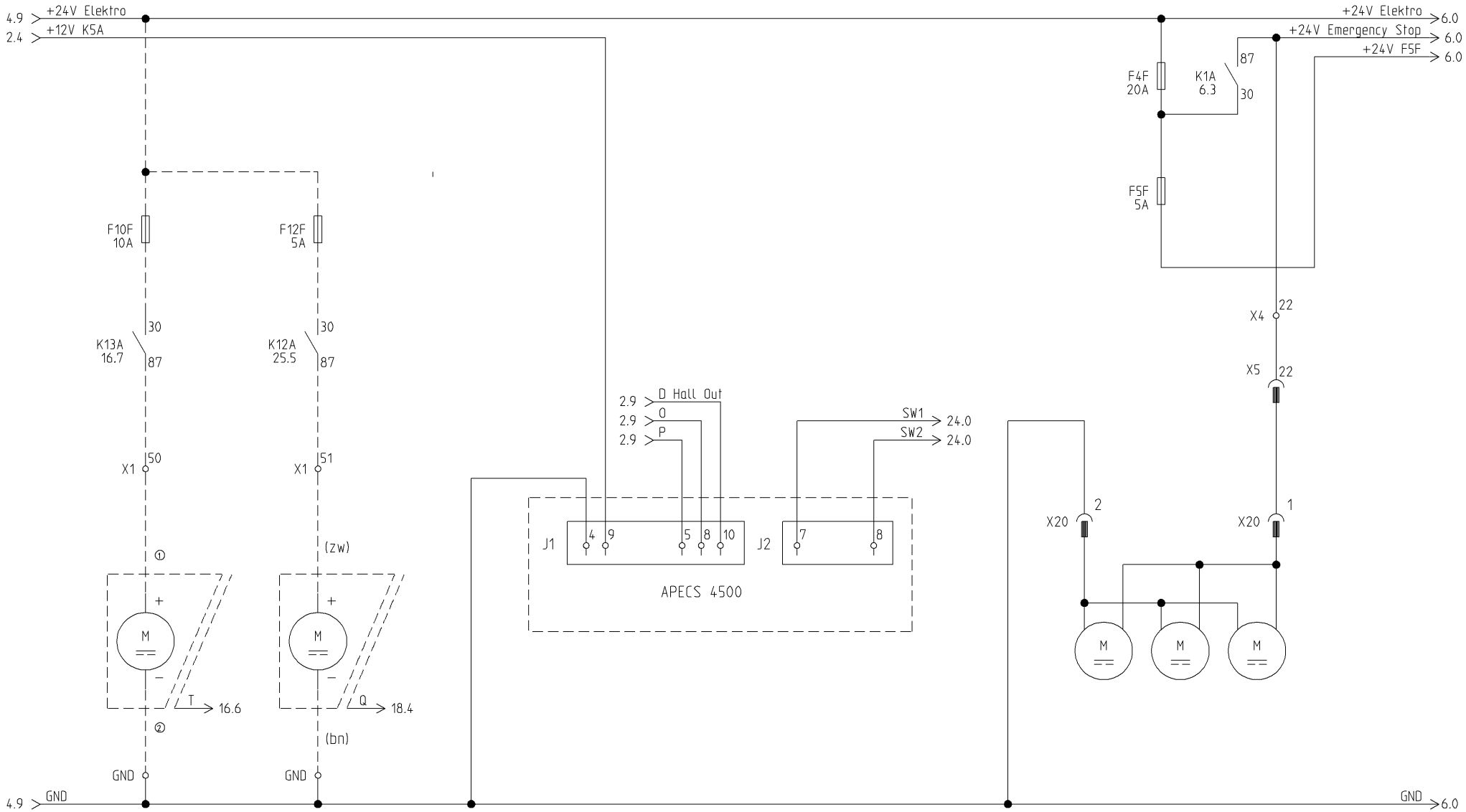

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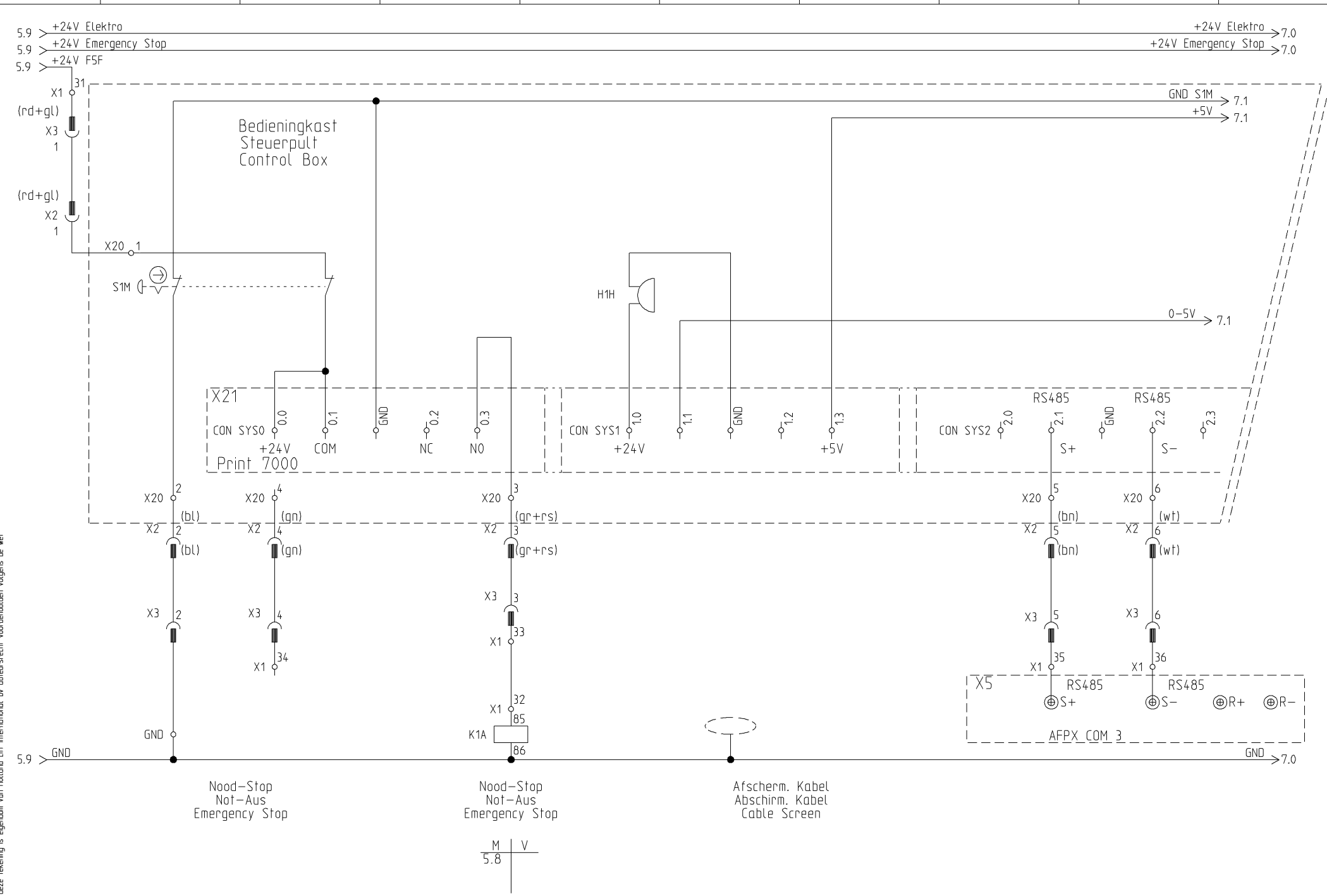

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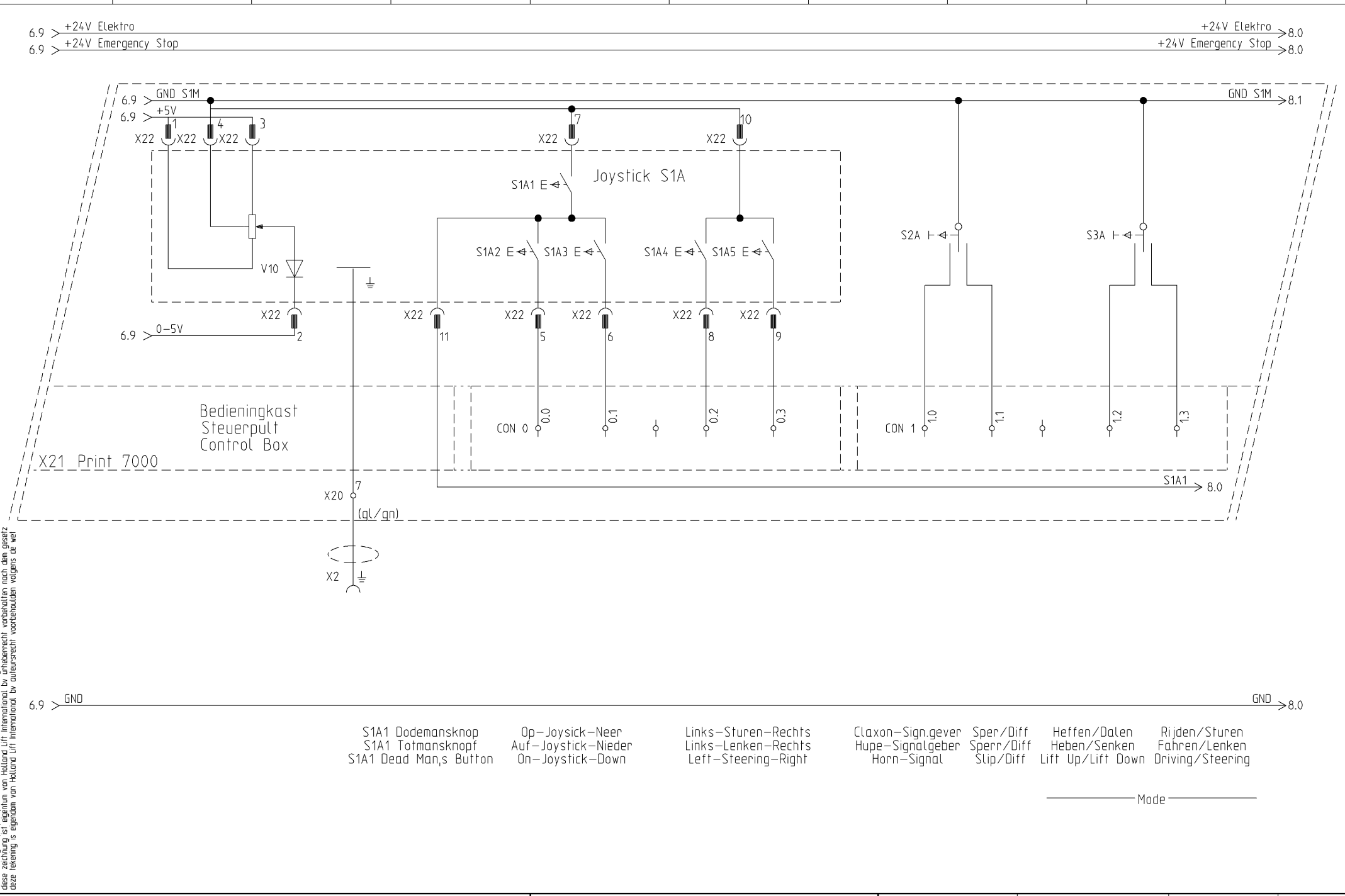

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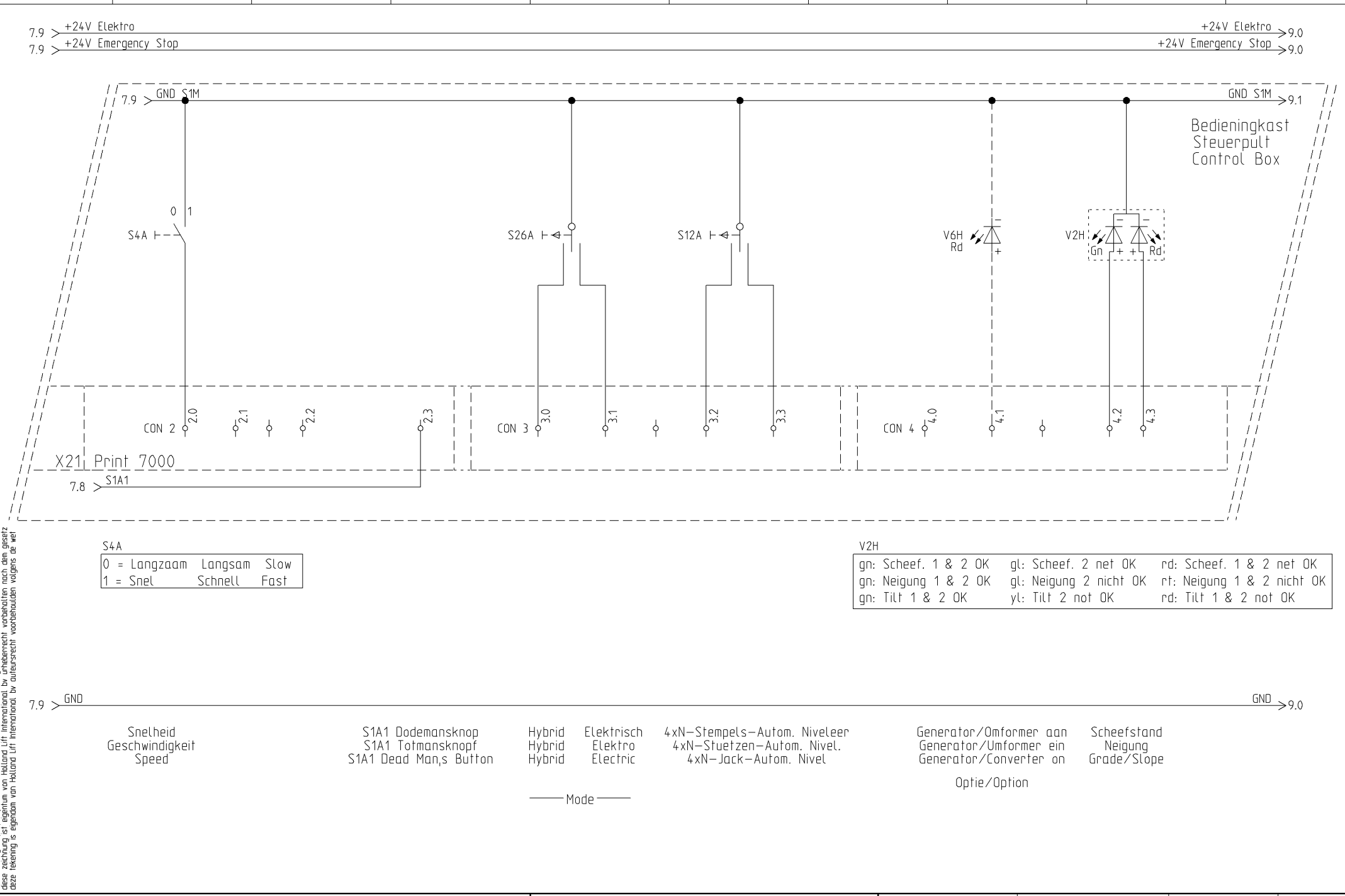

S4A

0 = Langzaam	Langsam	Slow
1 = Snel	Schnell	Fast

V2H

gn: Scheef. 1 & 2 OK	gl: Scheef. 2 net OK	rd: Scheef. 1 & 2 net OK
gn: Neigung 1 & 2 OK	gl: Neigung 2 nicht OK	rt: Neigung 1 & 2 nicht OK
gn: Tilt 1 & 2 OK	yl: Tilt 2 not OK	rd: Tilt 1 & 2 not OK

Snelheid
Geschwindigkeit
Speed

S1A1 Dodemansknop
S1A1 Totmansknopf
S1A1 Dead Man,s Button

Hybrid Elektrisch 4xN-Stempels-Autom. Niveleer
Hybrid Elektro 4xN-Stuetzen-Autom. Nivel.
Hybrid Electric 4xN-Jack-Autom. Nivel

Mode

Generator/Omformer aan
Generator/Umformer ein
Generator/Converter on

Optie/Option

Scheefstand
Neigung
Grade/Slope

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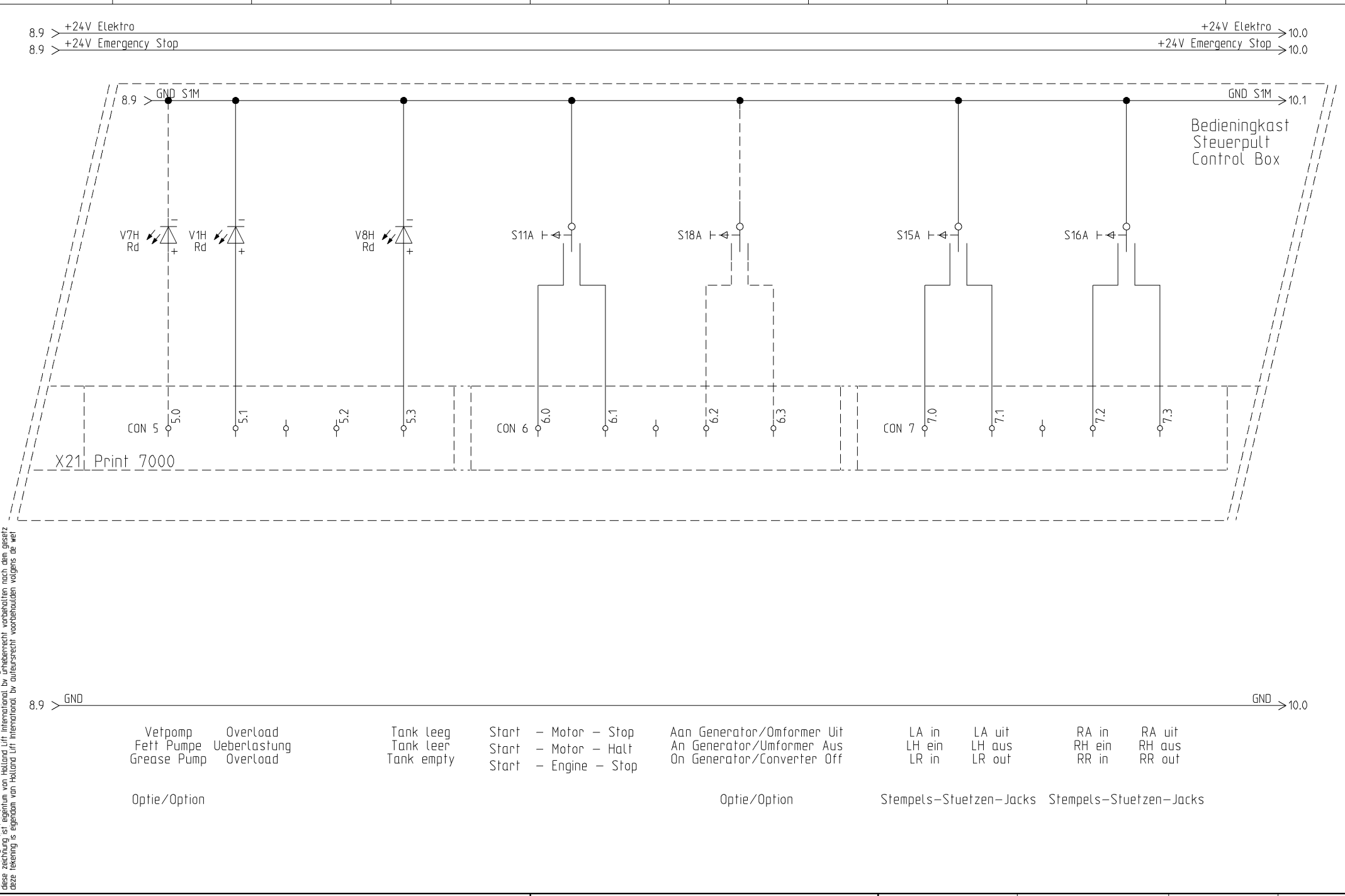
Datum: 16.05.2017	Anlage: =	Ort: +	Blatt: 8



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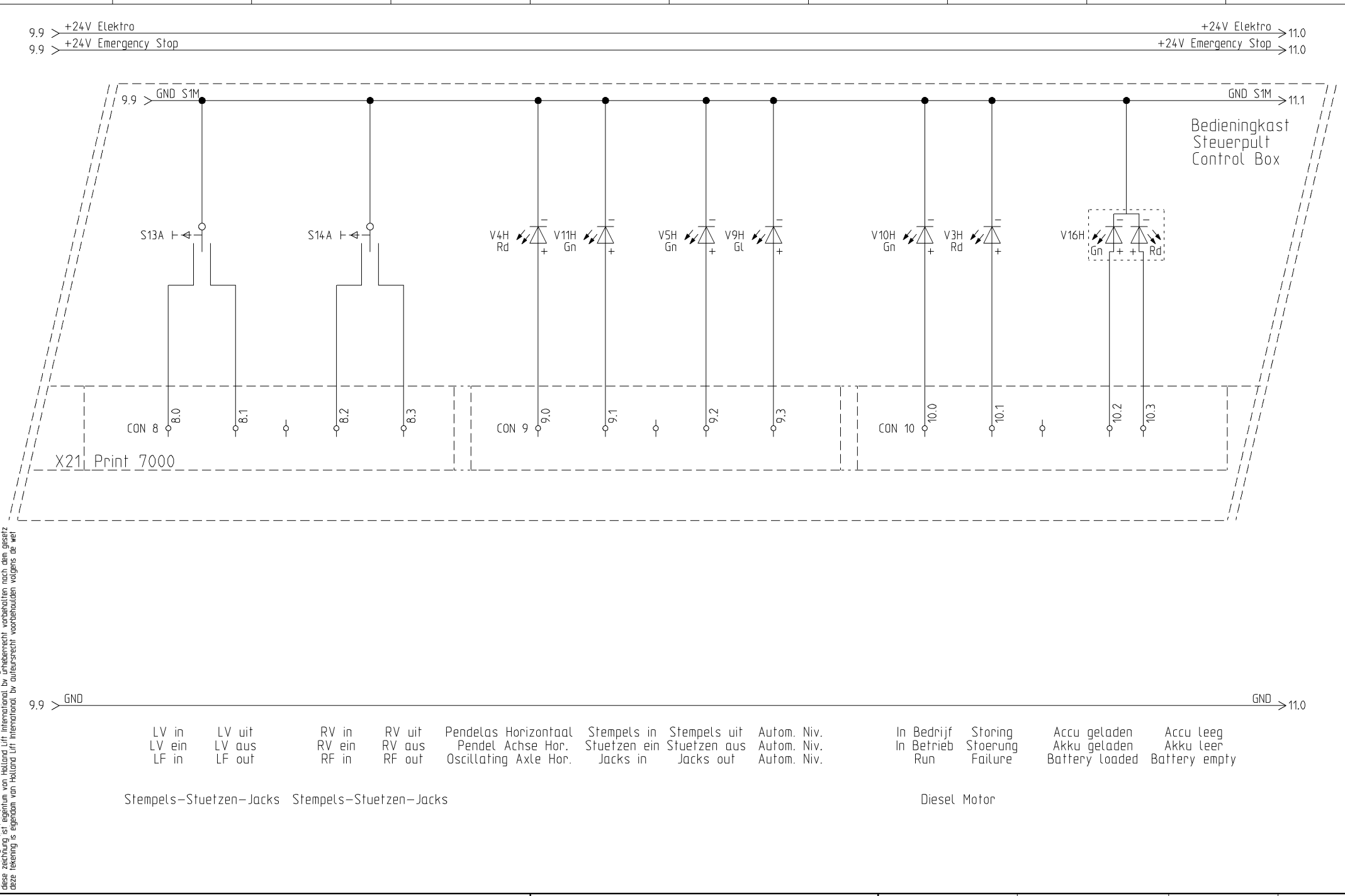

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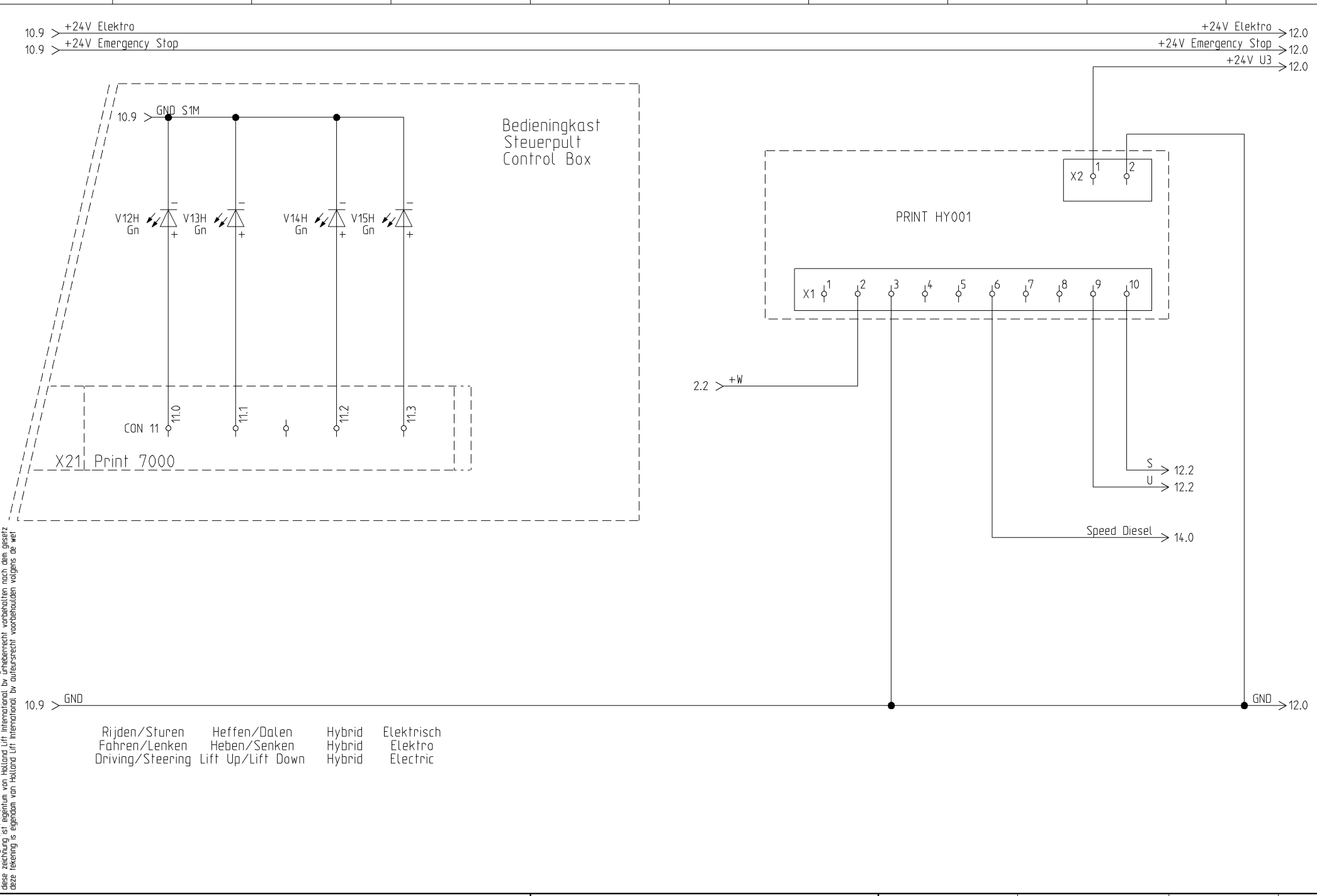

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Datum:	Anlage:	Ort:	Blatt:
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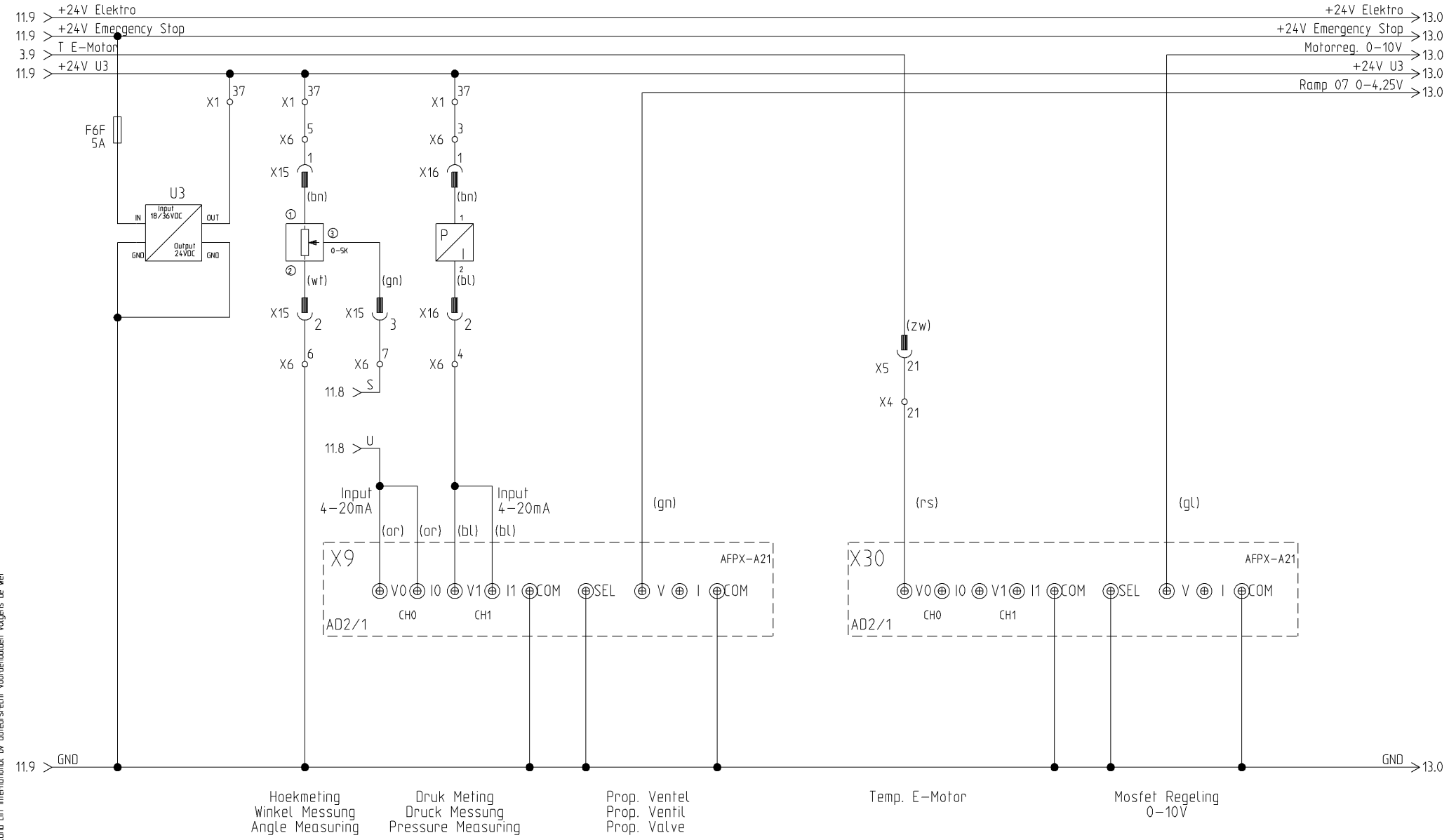

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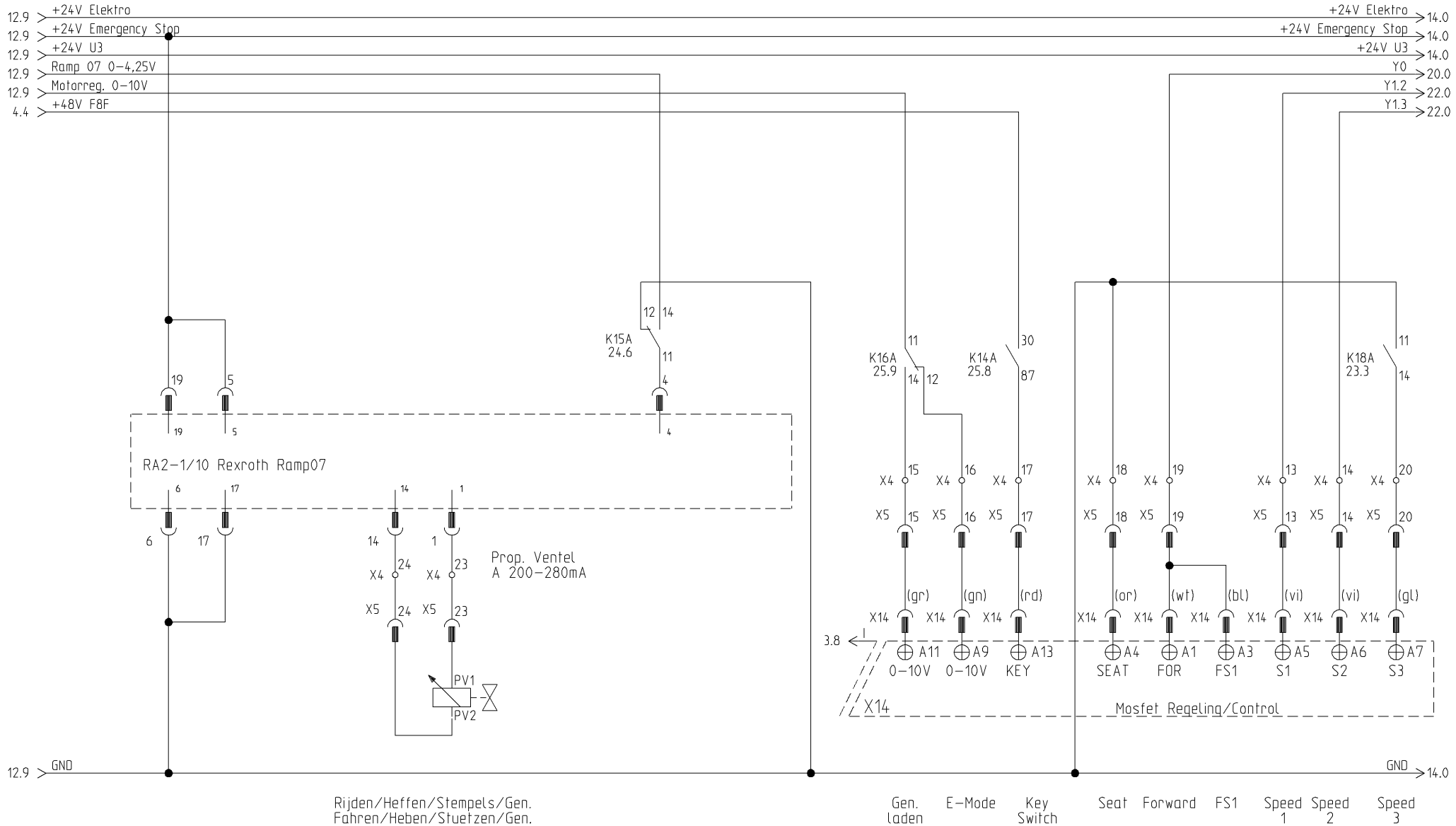

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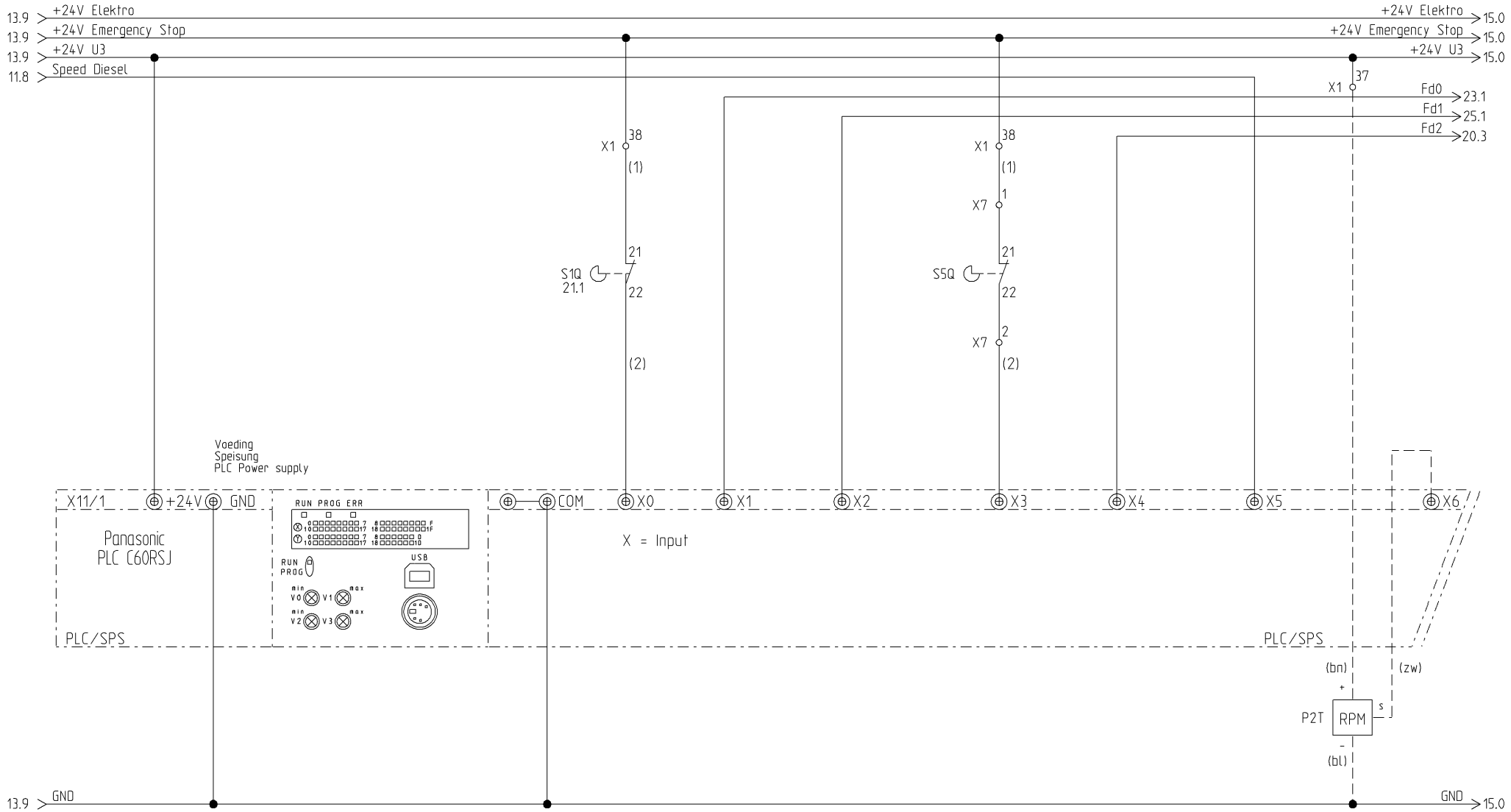

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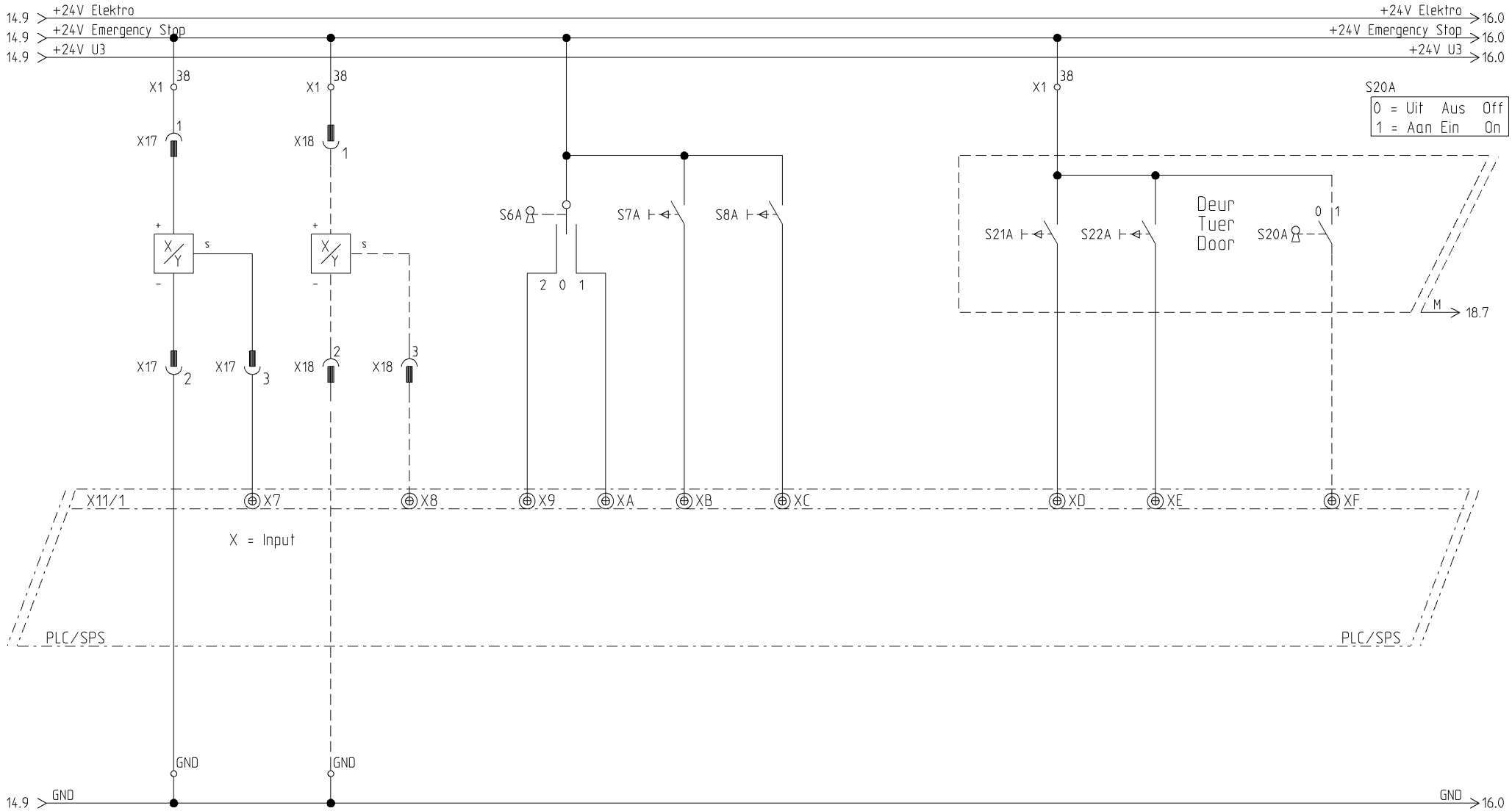

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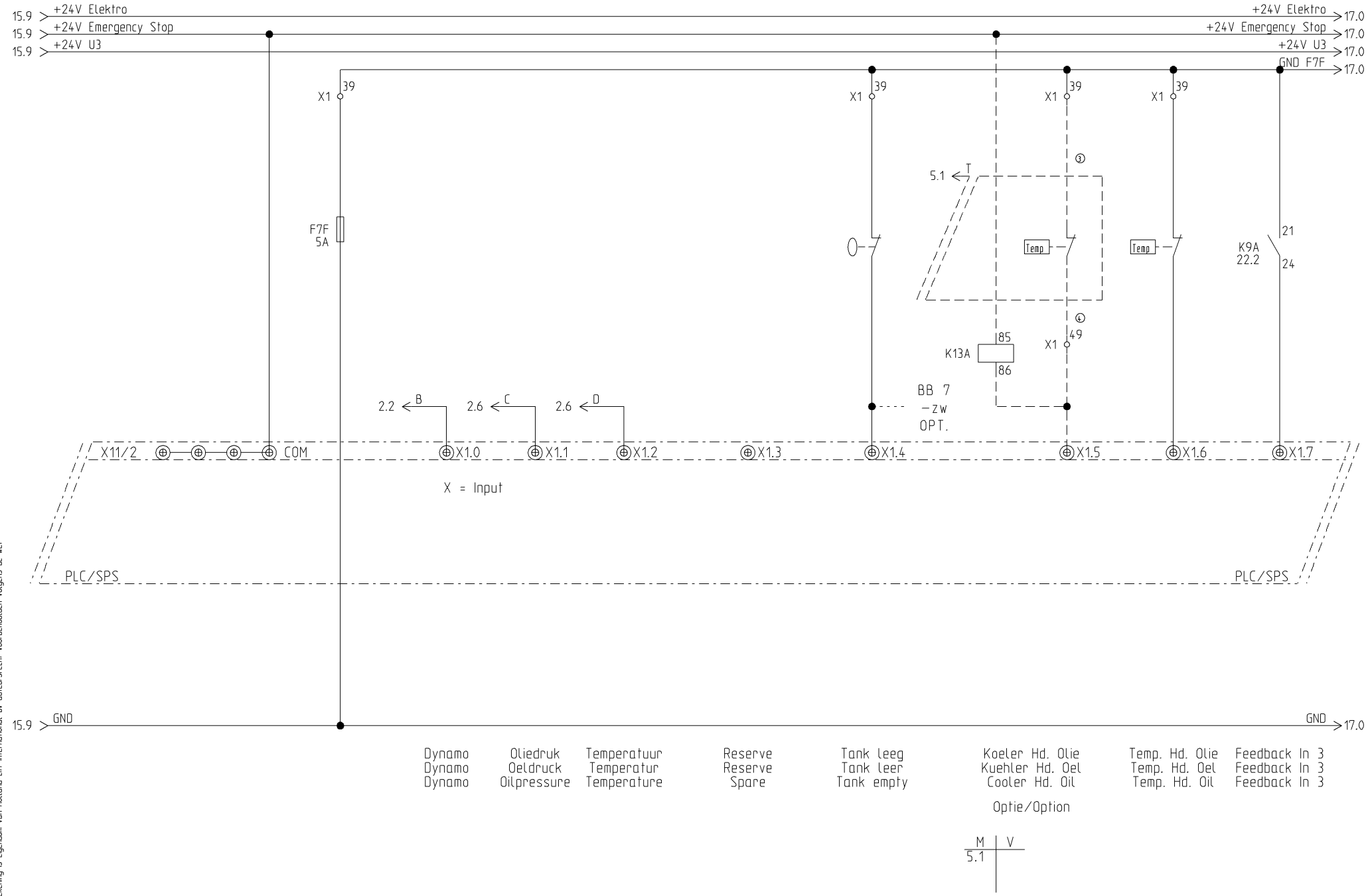

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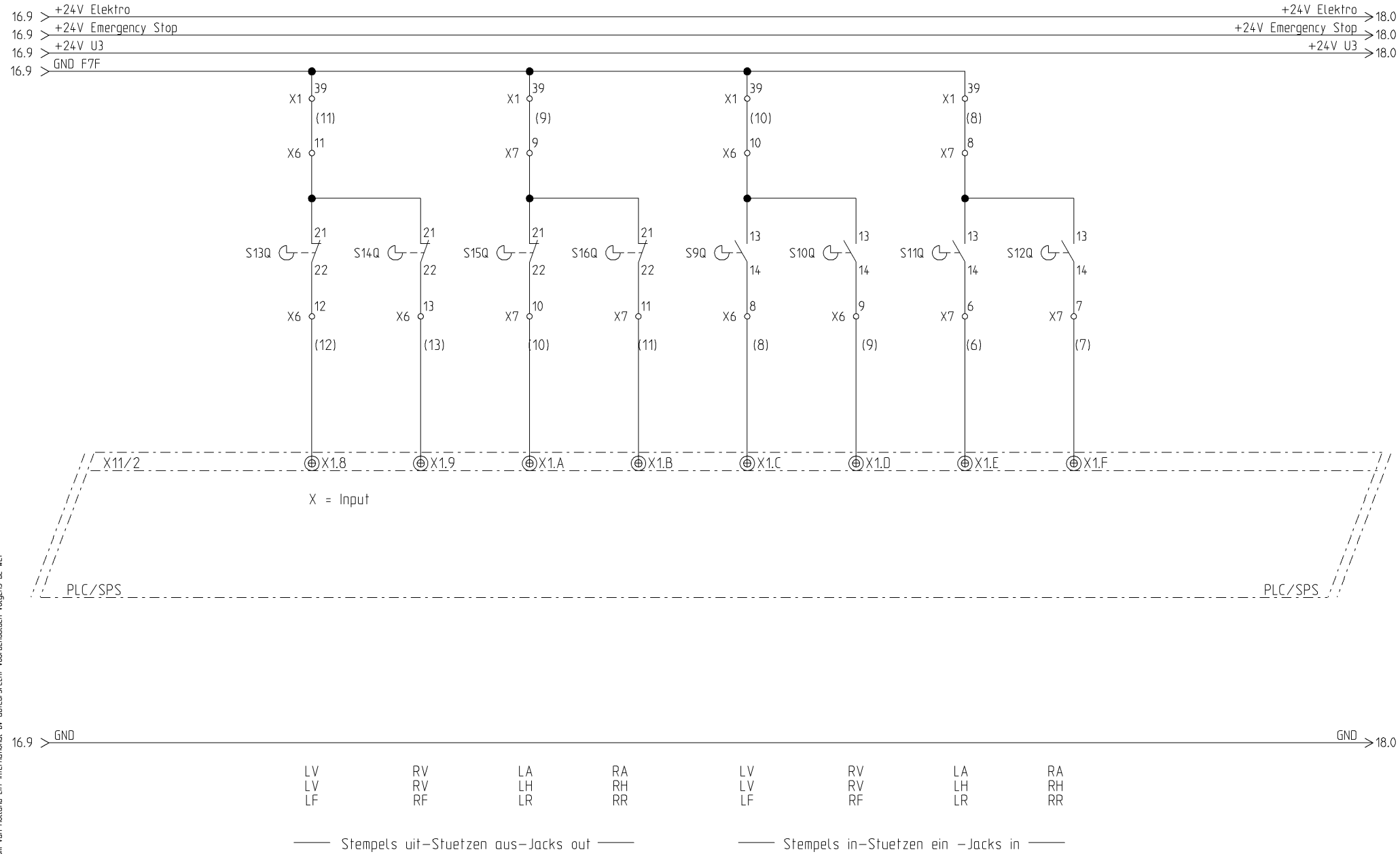

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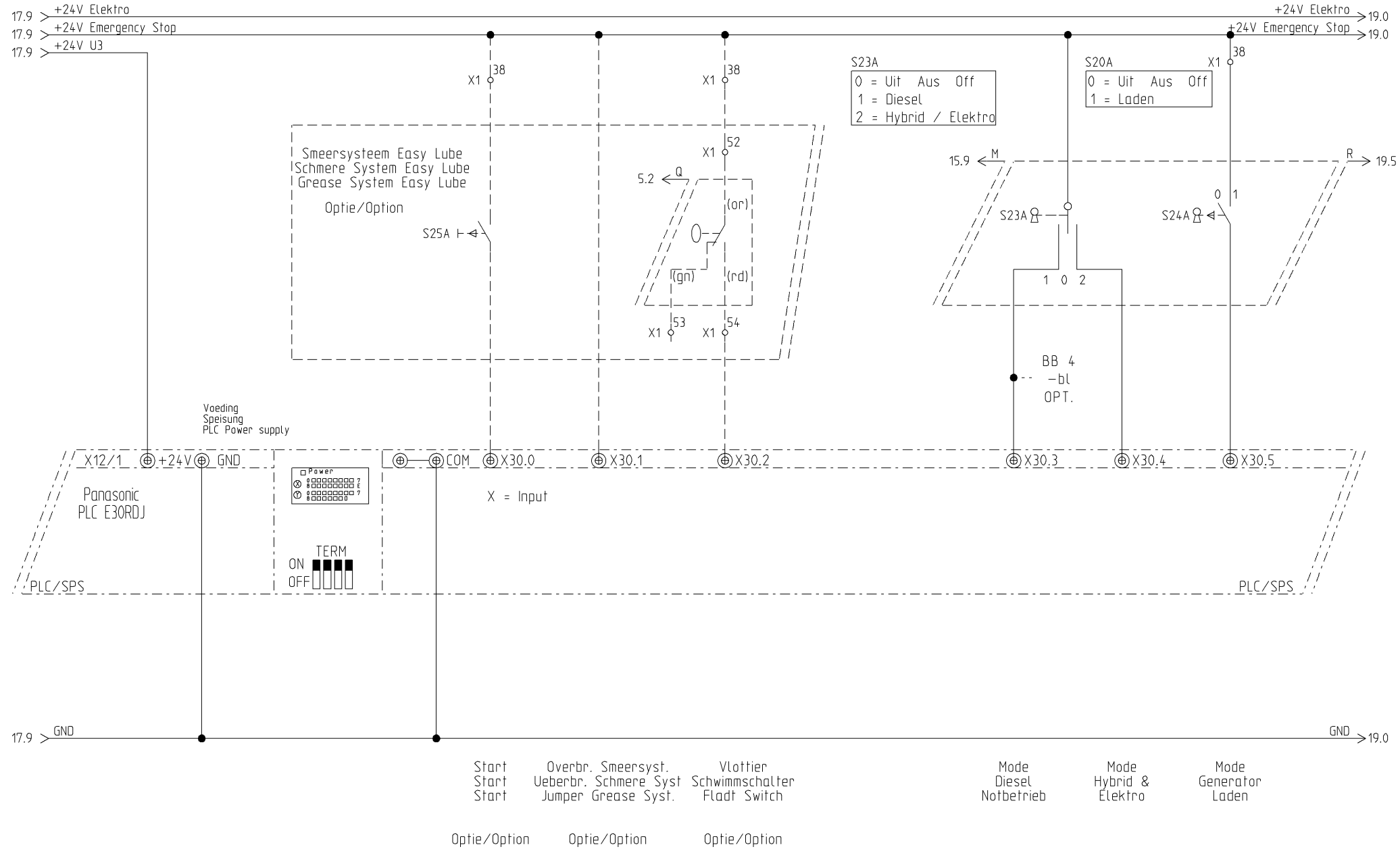

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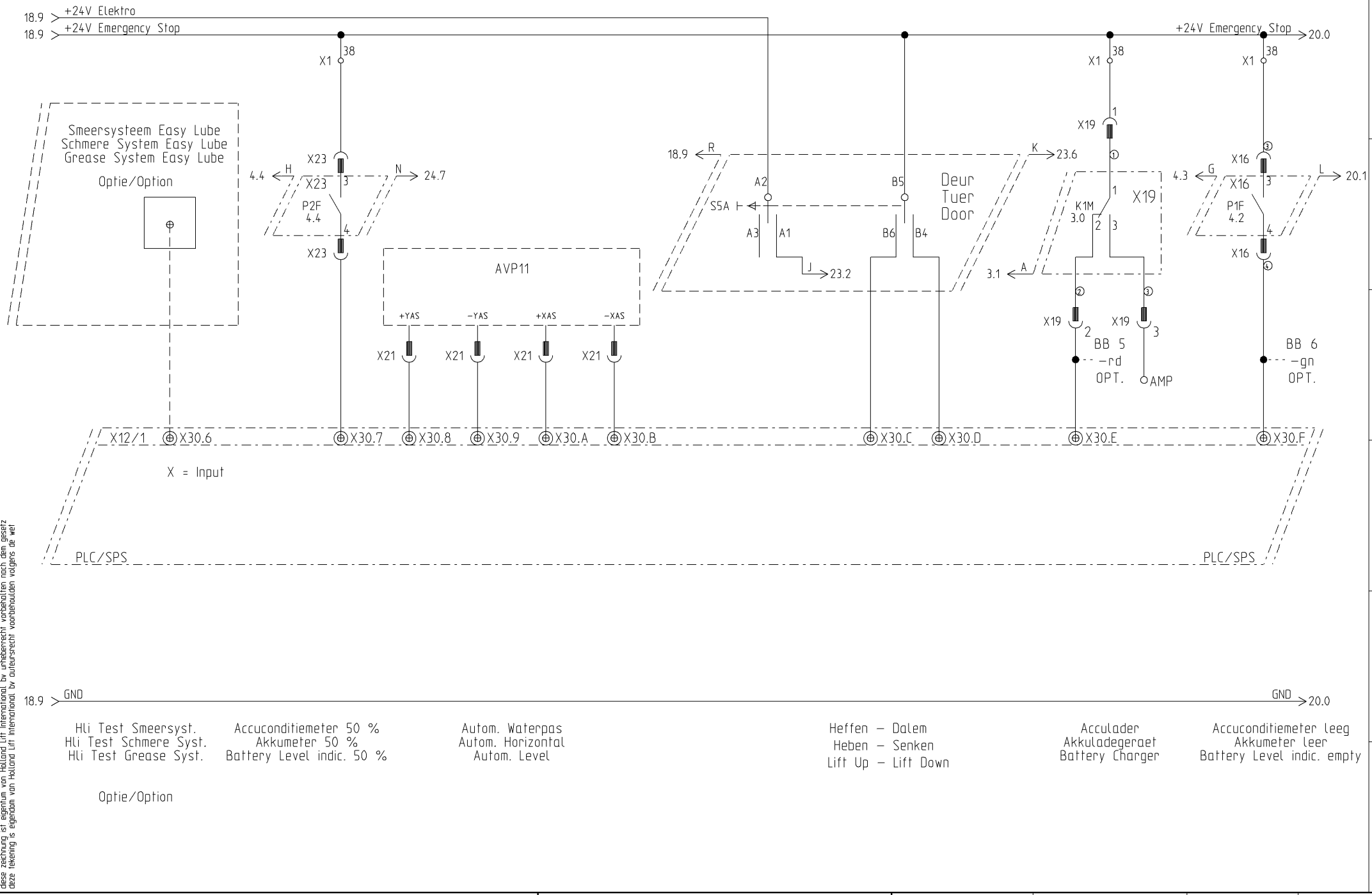

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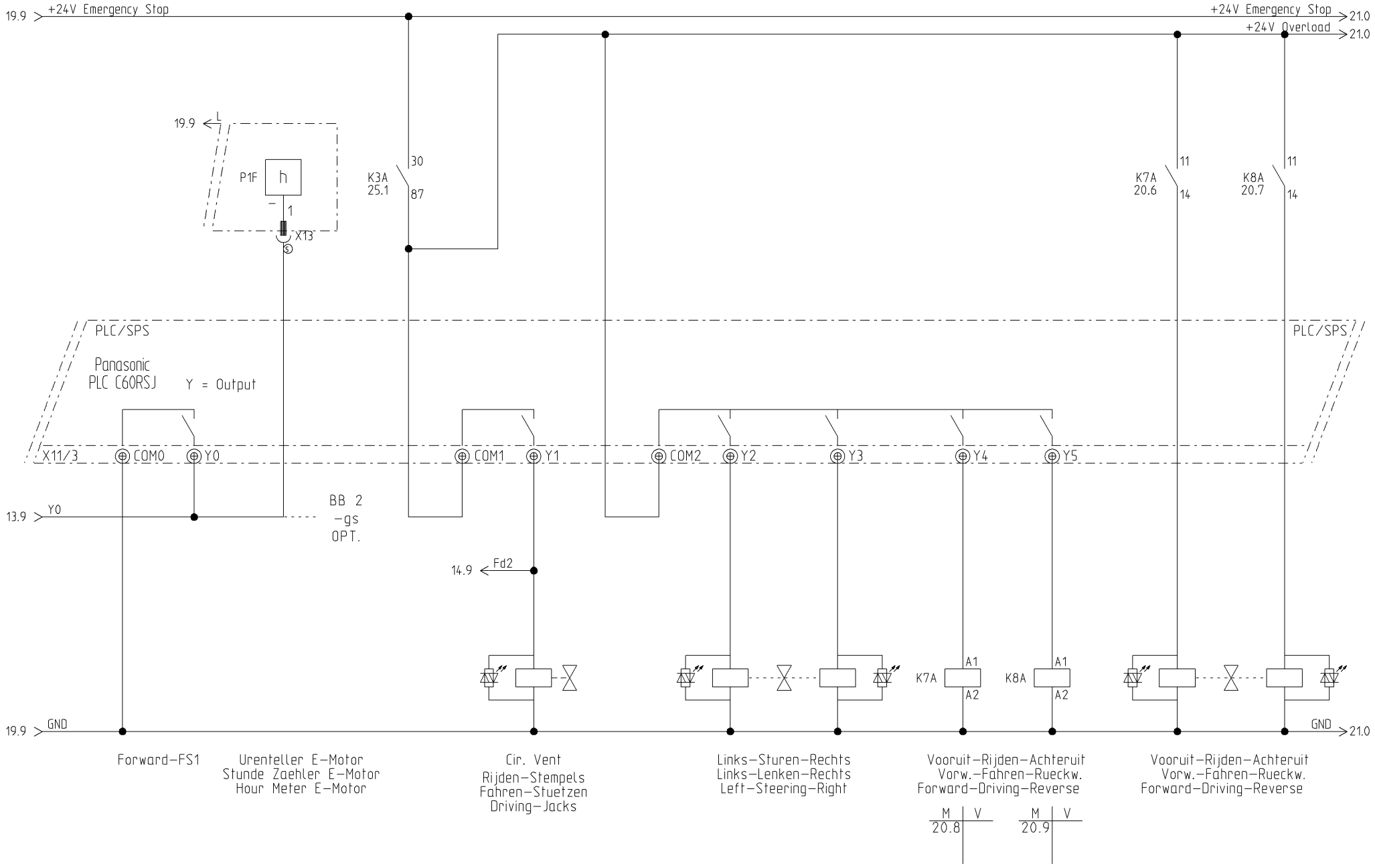

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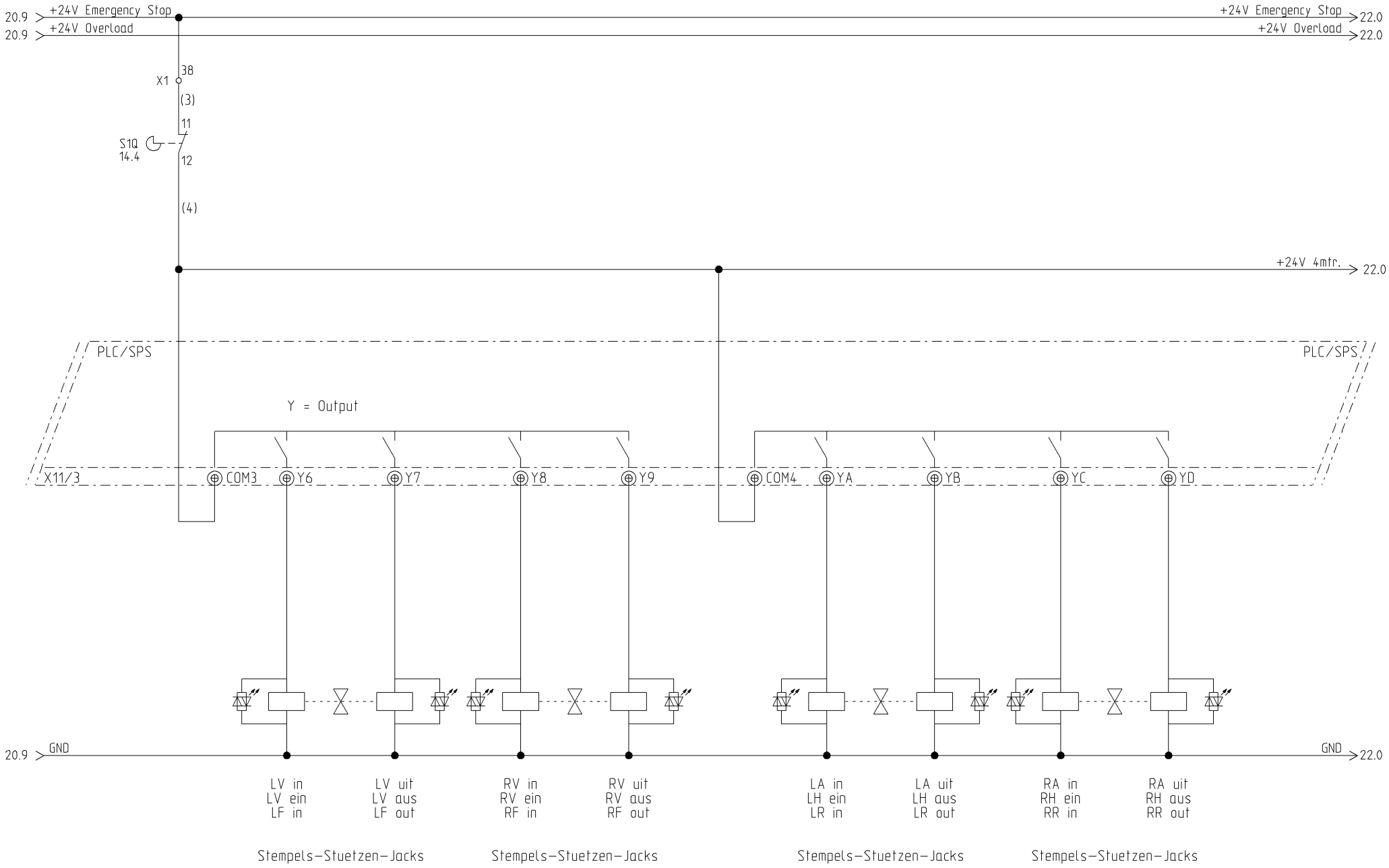

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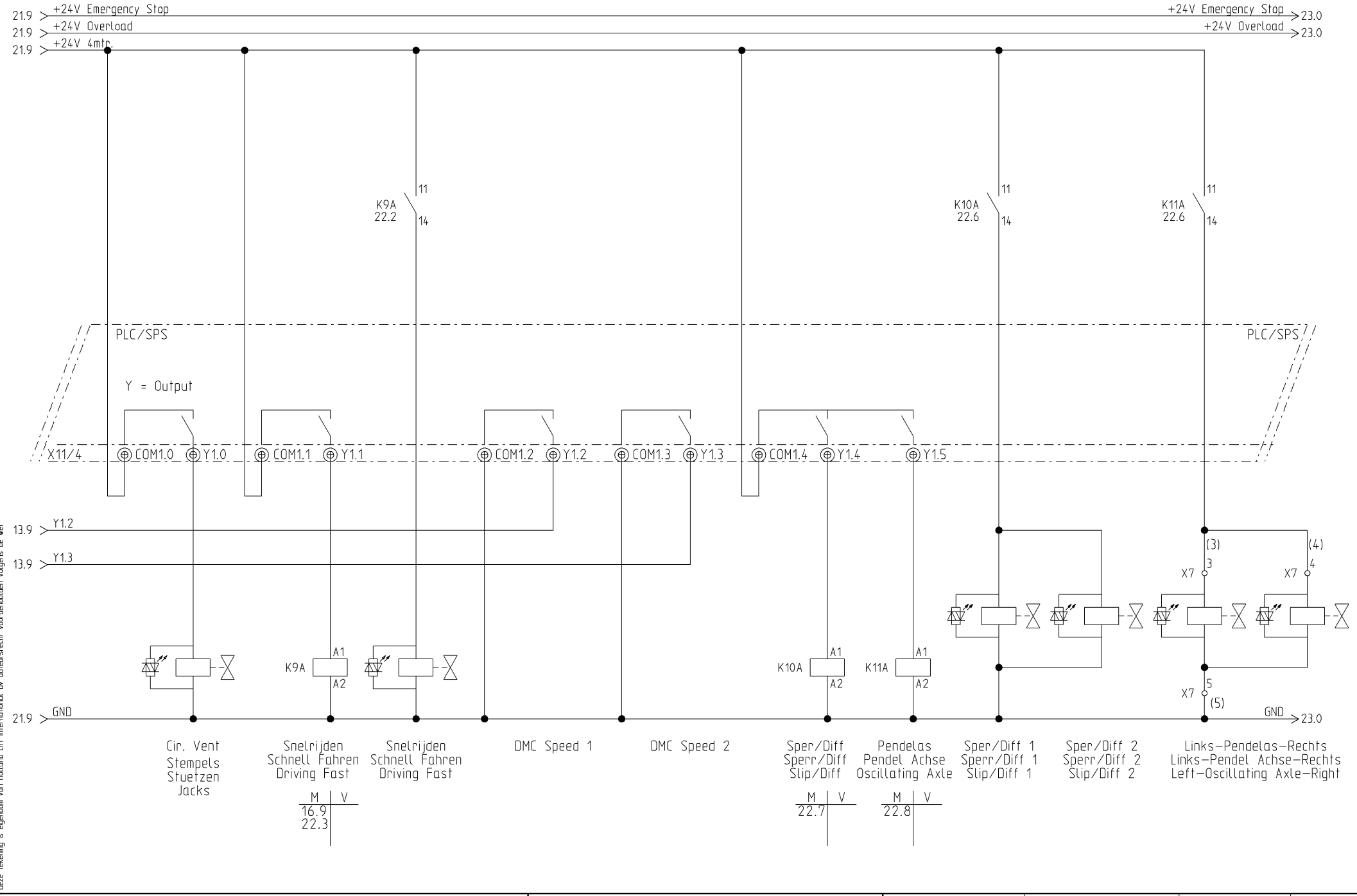

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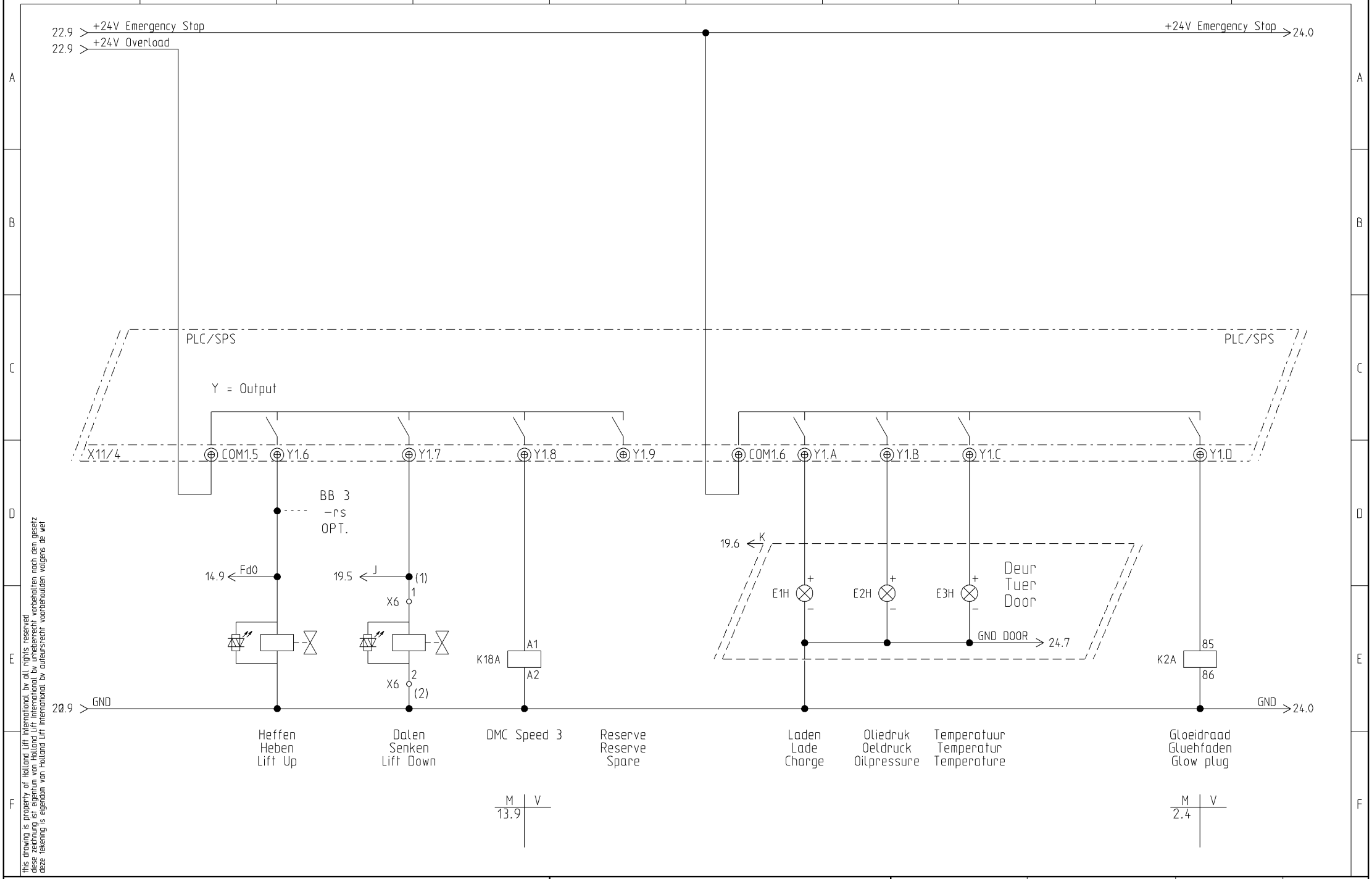

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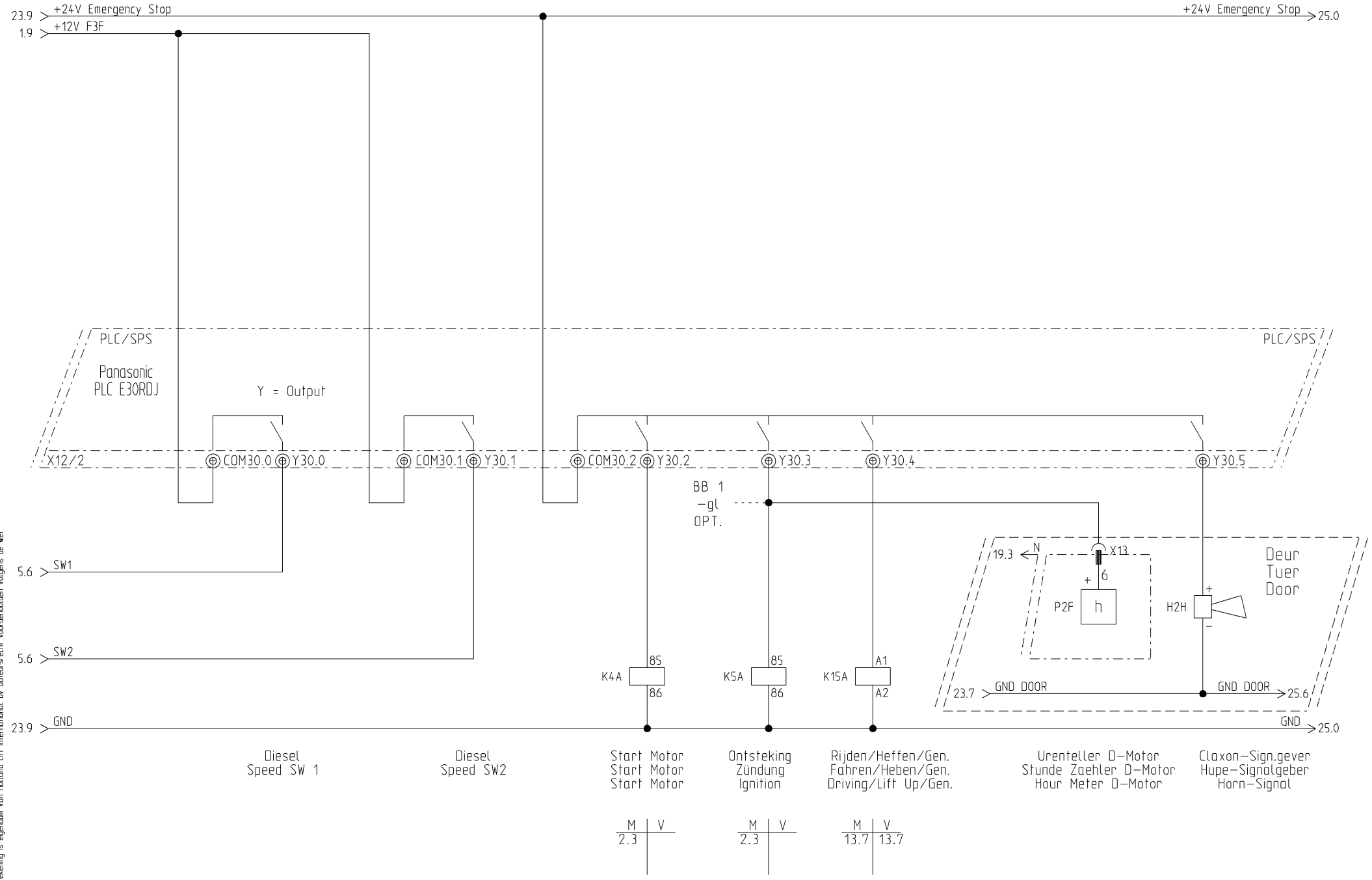

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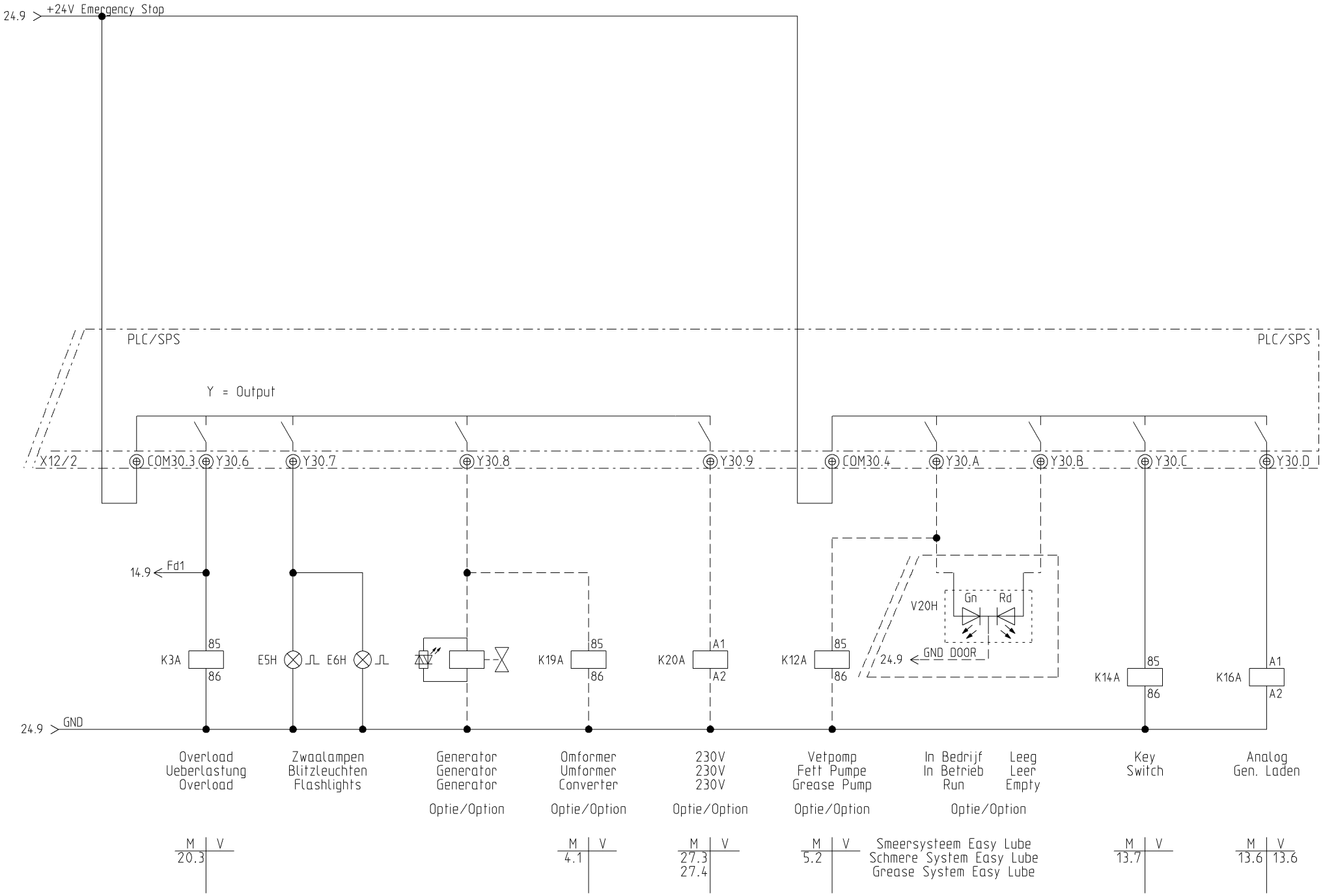

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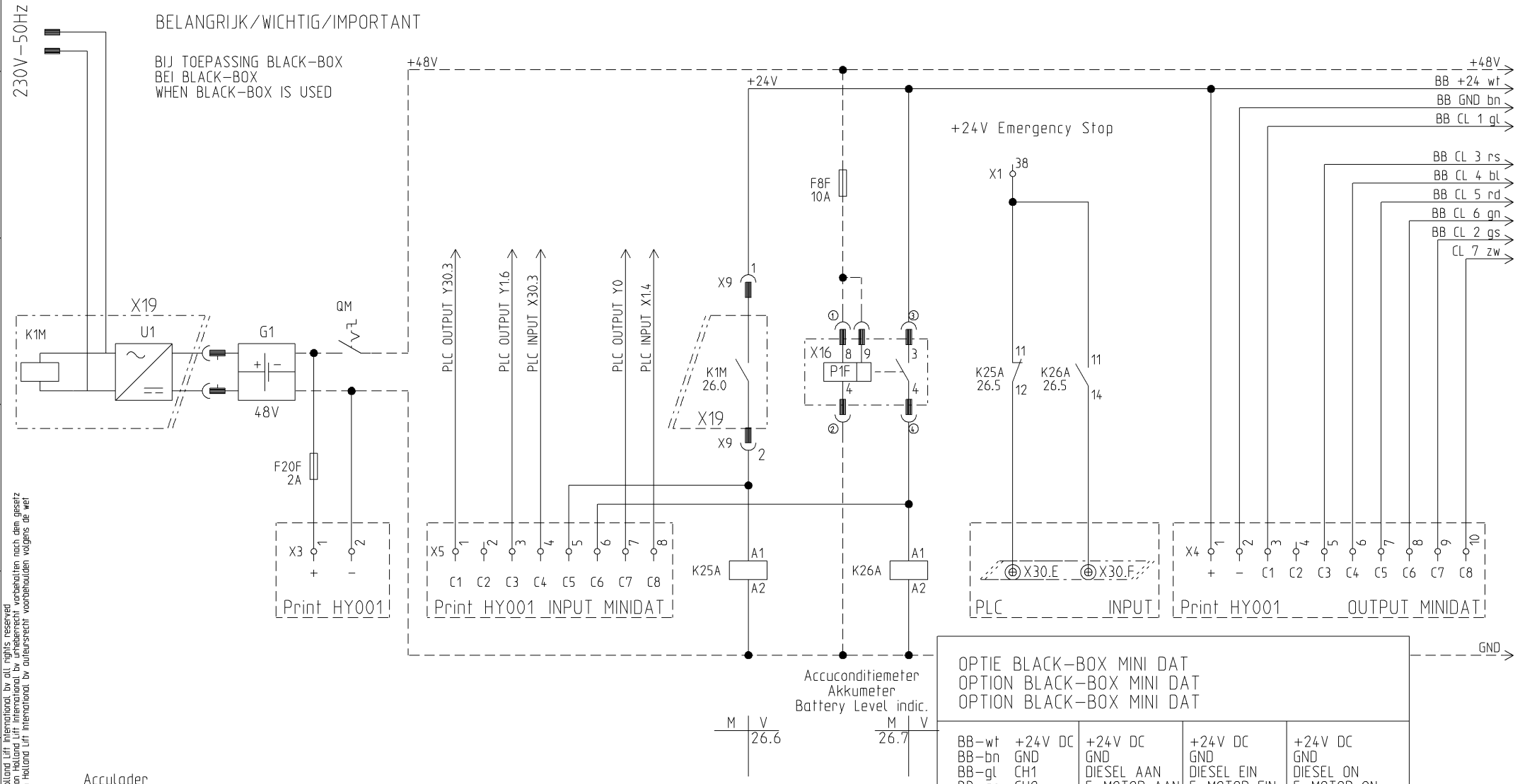
OPTIES
OPTIONEN
OPTIONS



OPTIE BLACK–BOX MINI DAT
OPTION BLACK–BOX MINI DAT
OPTION BLACK–BOX MINI DAT

BB–wt +24V DC	+24V DC	+24V DC	+24V DC
BB–bn GND	GND	GND	GND
BB–gl CH1	DIESEL AAN	DIESEL EIN	DIESEL ON
BB–gs CH2	E–MOTOR AAN	E–MOTOR EIN	E–MOTOR ON
BB–rs CH3	HEFFEN	HEBEN	LIFT UP
BB–bl CH4	DIESEL NOT	DIESEL NOT	DIESEL NOT
BB–rd CH5	LAADTIJD	LADEZEIT	CHARGE TIME
BB–gn CH6	ACCU LEEG	AKKU LEER	BATTERY EMPTY
BB–zw CH7	TANK LEEG	TANK LEER	TANK EMPTY
BB–vi CH8	RESERVE	RESERVE	RESERVE

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OPTIES
OPTIONEN
OPTIONS

Projekt: EQ–22–001	Zeichnungsnummer:	Rev.: B	erstellt von: Rothenbusch	
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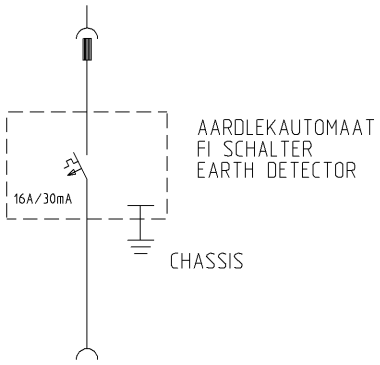
OPTIES
OPTIONEN
OPTIONS

230V AANSLUITING PLATFORM
230V ANSCHLUSS PLATTFORM
230V SUPPLY PLATFORM

<230VPLF>

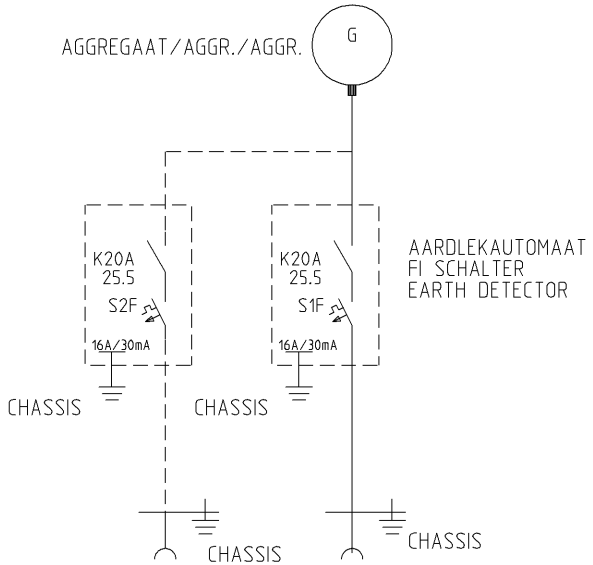
230V–50Hz/115V–50Hz



230V AANSLUITING PLATFORM
230V ANSCHLUSS PLATTFORM
230V SUPPLY PLATFORM

<230V–GEN>

230V–50Hz/115V–50Hz



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OPTIES
OPTIONEN
OPTIONS

Projekt:	Zeichnungsnummer:	Rev.:	erstellt von:
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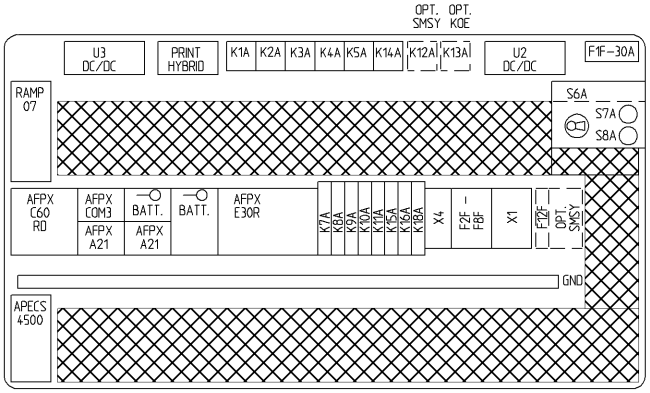
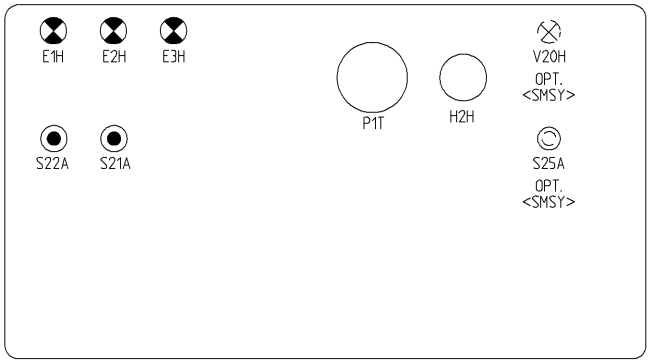
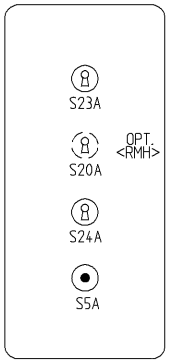
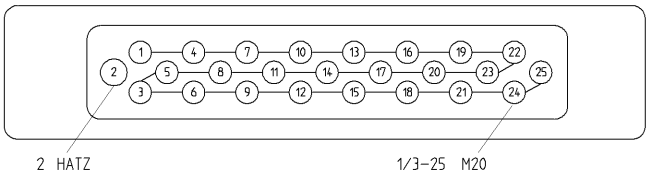
Datum:	Anlage:	Ort:	Blatt:
16.05.2017	=	+	27

KLEMMENKAST KLEMMENKASTEN CONNECTION BOX









Colour schedule			
Colour	Dutch	English	Deutsch
Rd	Rood	Red	Rot
Bl	Blauw	Blue	Blau
Gl	Geel	Yellow	Gelb
Gn	Groen	Green	Gruen
Zw	Zwart	Black	Schwarz
Wt	Wit	White	Weiss
Bn	Bruin	Brown	Braun
Rs	Roze	Pink	Rosa
Or	Oranje	Orange	Orange
Ps	Paars	Violet	Violett
Tp	Transp.	Transp.	Transp.
Gs	Grijs	Grey	Grau

X4

			1	2	3	4	5	6	7	8	9	10	11	12											
25	26	27													F2F 20A	F3F 10A	F4F 20A	F5F 5A	F6F 5A	F7F 5A	F8F 10A				
			13	14	15	16	17	18	19	20	21	22	23	24											
			13	14	15	16	17	18	19	20	21	22	23	24											
25	26	27																							
			1	2	3	4	5	6	7	8	9	10	11	12											

X1

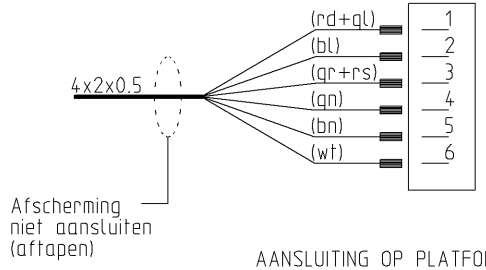
31	32	33	37	38	38	38	39	40																	
34	35	36	37	38	38	38	39	40																	
34	35	36	37	38	38	38	39	40																	
31	32	33	37	38	38	38	39	40																	

OPT. <KOE>

49	
F10F 10A	50
	50
49	

OPT. <SMSY>

51	52
F12F 5A	53 54
53	54
51	52



AANSLUITING OP PLATFORM
ANSCHLUSS AUF PLATTFORM
CONNECTION ON PLATFORM

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KASTEN/BEKABELING
KASTEN/KABEL
BOXES/CABLES

Projekt:	Zeichnungsnummer:	Rev.:	erstellt von:
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Datum:	Anlage:	Ort:	Blatt:
16.05.2017	=	+	28

KLEMMENKAST
KLEMMENKASTEN
CONNECTION BOX

WARTEL KABELEINF. GLAND NR.	KLEM KLEMME TERMINAL NR	FUNKTIE	FUNKTION	FUNCTION
1.1	ϕ 25	+12V Diesel	+12V Diesel	+12V Diesel
1.2	GND	GND Diesel	GND Diesel	GND Diesel
2	DIV/VAR	Diesel X5	Diesel X5	Diesel X5
3.1	ϕ 38–GND–X7	Scheefstand	Neigung	Inclination
3.2	DIV/VAR	Auto Niv.	Auto Niv.	Auto Niv.
4.1	ϕ 38–GND–X8	Scheefstand Opt.	Neigung Opt.	Inclination Opt.
4.2	DIV/VAR	4mtr. Afslag S1Q	4mtr. Ausschaltung S1Q	4mtr. Cut–out S1Q
5.1	YA–GND	Stempels LA in	Stuetzen LH ein	Jacks LR in
5.2	YB–GND	Stempels LA uit	Stuetzen LH aus	Jacks LR out
6.1	YC–GND	Stempels RA in	Stuetzen RH ein	Jacks RR in
6.2	YD–GND	Stempels RA uit	Stuetzen RH aus	Jacks RR out
7.1	Y6–GND	Stempels LV in	Stuetzen LV ein	Jacks LF in
7.2	Y7–GND	Stempels LV uit	Stuetzen LV aus	Jacks LF out
8.1	Y8–GND	Stempels RV in	Stuetzen RV ein	Jacks RF in
8.2	Y9–GND	Stempels RV uit	Stuetzen RV aus	Jacks RF out
9	DIV/VAR	Lasdoos voor X6	Verteilerdose vorn X6	Connect. Box front X6
10	DIV/VAR	Lasdoos achter X7	Verteilerdose hinten X7	Connect. Box rear X7
11.1	K10A:14–GND	Sper/Diff. Ventiel	Sperr/Diff. Ventil	Slip/Diff. Valve
11.2	K10A:14–GND	Sper/Diff. Ventiel	Sperr/Diff. Ventil	Slip/Diff. Valve
12.1	K9A:14–GND	Snelrijden	Schnell Fahren	Driving Fast
12.2	Y1–GND	Cir. Vent Ri.–St.	Cir. Vent. Fa.–St.	Cir. Valve Dr.–Ja.
13.1	K7A:14–GND	Rijden Vooruit	Fahren Vorwaerts	Driving Forward
13.2	K8A:14–GND	Rijden Achteruit	Fahren Rueckwaerts	Driving Reverse
14.1	Y1.6–GND	Heffen	Heben	Lift Up
14.2	Y1.0–GND	Cir. Ventiel Stempels	Cir. Ventil Stuetzen	Cir. Valve Jacks
15.1	Y2–GND	Sturen Links Voor	Lenken Links Vorn	Steering Left Front
15.2	Y3–GND	Sturen Rechts Voor	Lenken Rechts Vorn	Steering Right Front

WARTEL KABELEINF. GLAND NR.	KLEM KLEMME TERMINAL NR	FUNKTIE	FUNKTION	FUNCTION
16.1	Y30.8–GND	Hydr. Aggregaat Opt.	Hydr. Aggr. Opt.	Hydr. Aggr. Opt.
16.2	DIV/VAR	RPM Teller Gen. Opt.	RPM Zaehler Gen. Opt.	RPM Meter Gen. Opt.
17.1	Y30.9–GND	Relais Aggregaat Opt.	Relais Aggr. Opt.	Relais Aggr. Opt.
17.2	ϕ 39 –X1.4	Tank leeg	Tank leer	Tank empty
18	DIV/VAR	WCD Onderwagen 6PM	WCD Unterwagen 6PM	Socket Below 6PM
19.1	Y30.7–GND	Zwaailamp Opt.	Blitzleuchte Opt.	Flashlight Opt.
19.2	Y30.7–GND	Zwaailamp Opt.	Blitzleuchte Opt.	Flashlight Opt.
20.1	DIV/VAR	Smeersytem Opt.	Schmiere System Opt.	Grease System Opt.
20.2	DIV/VAR	Black–Box Opt.	Black–Box Opt.	Black–Box Opt.
21.1	ϕ 39 –X1.6	Temp. Hd. Olie	Temp. Hd. Oel	Temp. Hd. Oil
21.2	DIV/VAR	Koeler	Kuehler	Cooler
22.1	DIV/VAR	Accumeter	Akkumeter	Batterymeter
22.2	ϕ 38–X30.E	Acculader	Akkuladegeraet	Battery Charger
23.1	ϕ 27	+48V Omvormer	+48V Wandler	+48V Converter
23.2	ϕ 26	+24V Omvormer	+24V Wandler	+24V Converter
23.3 & .4	GND	GND Omvormer	GND Wandler	GND Converter
23.5	ϕ 27	+48V Electric	+48V Elektro	+48V Electric
23.6	GND	GND Electric	GND Elektro	GND Electric
24	Res./Spare	Reserve	Reserve	Spare
25	Res./Spare	Reserve	Reserve	Spare

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KASTEN/BEKABELIN
KASTEN/KABEL
BOXES/CABLES

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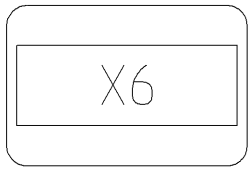
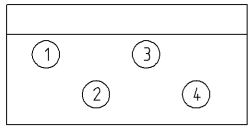
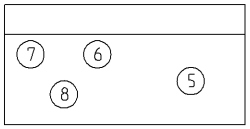
Datum:	Anlage:	Ort:	Blatt:
16.05.2017	=	+	29

LASDOOS AFSLAGEN
VERTEILERDOSE HOEHEAUSSCHALTUNG
MAXIMUM HEIGHT DISTRBUOR BOX



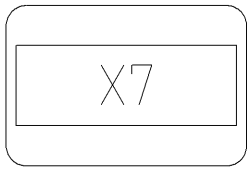


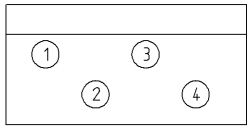


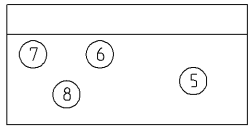
1–4/6–8 M12
5 PG16

WARTEL KABELEINF. GLAND NR. (X6)	Omschrijving	Beschreibung	Descreption
1	Eindschak. LV in S9Q	Endschalter LV ein S9Q	Limit Switch LF in S9Q
2	Eindschak. LV uit S13Q	Endschalter LV aus S13Q	Limit Switch LF out S13Q
3	Eindschak. RV in S10Q	Endschalter RV ein S10Q	Limit Switch RF in S10Q
4	Eindschak. RV uit S14Q	Endschalter RV aus S14Q	Limit Switch RF out S14Q
5	Kabel Klemmenkast	Kabel Klemmenkasten	Cable Connection Box
6	Druk Meting	Druck Messung	Pressure Measuring
7	Hoekmeting	Winkel Messung	Angle Measuring
8	Dalen	Senken	Lift Down

LASDOOS ACHTER
VERTEILERDOSE HINTEN
DISTRBUOR BOX REAR







1–4/6–8 M12
5 PG16

WARTEL KABELEINF. GLAND NR. (X6)	Omschrijving	Beschreibung	Descreption
1	Eindschak. LA in S11Q	Endschalter LA ein S11A	Limit Switch LR in S11Q
2	Eindschak. LA uit S15Q	Endschalter LA aus S15Q	Limit Switch LR out S15Q
3	Eindschak. RA in S12Q	Endschalter RA ein S12Q	Limit Switch RR in S12Q
4	Eindschak. RA uit S16Q	Endschalter RA aus S16Q	Limit Switch RR out S16Q
5	Kabel Klemmenkast	Kabel Klemmenkasten	Cable Connection Box
6	Pendelas Rechts	Pendel Rechts	Oscillating Right
7	Pendelas Links	Pendel Achse Links	Oscillating Left
8	Pendelas Horizontaal S18Q	Pendel Achse Hor. S18Q	Oscillating Axle S18Q

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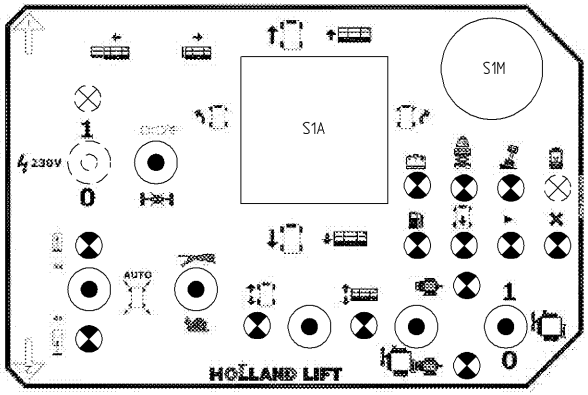
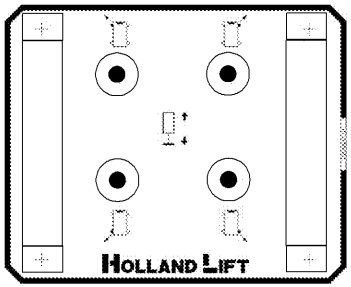
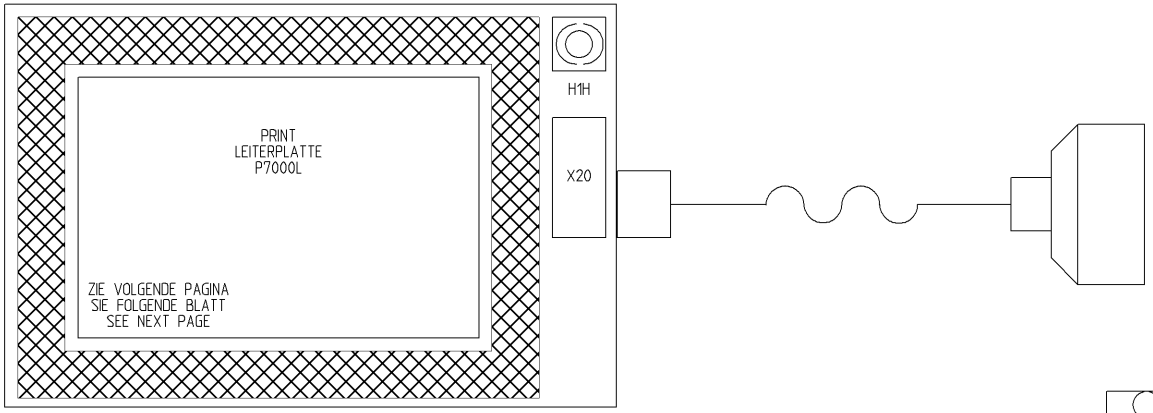
Datum:	Anlage:	Ort:	Blatt:
16.05.2017	=	+	30

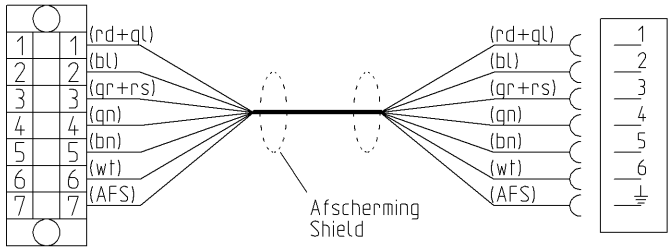
BEDIENINGSKAST
STEUERPULT
CONTROL BOX







Colour schedule			
Colour	Dutch	English	Deutsch
Rd	Rood	Red	Rot
Bl	Blauw	Blue	Blau
Gl	Geel	Yellow	Gelb
Gn	Groen	Green	Gruen
Zw	Zwart	Black	Schwarz
Wt	Wit	White	Weiss
Bn	Bruin	Brown	Braun
Rs	Roze	Pink	Rosa
Or	Oranje	Orange	Orange
Ps	Paars	Violet	Violett
Tp	Transp.	Transp.	Transp.
Gs	Grijs	Grey	Grau



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KASTEN/BEKABELING
KASTEN/KABEL
BOXES/CABLES

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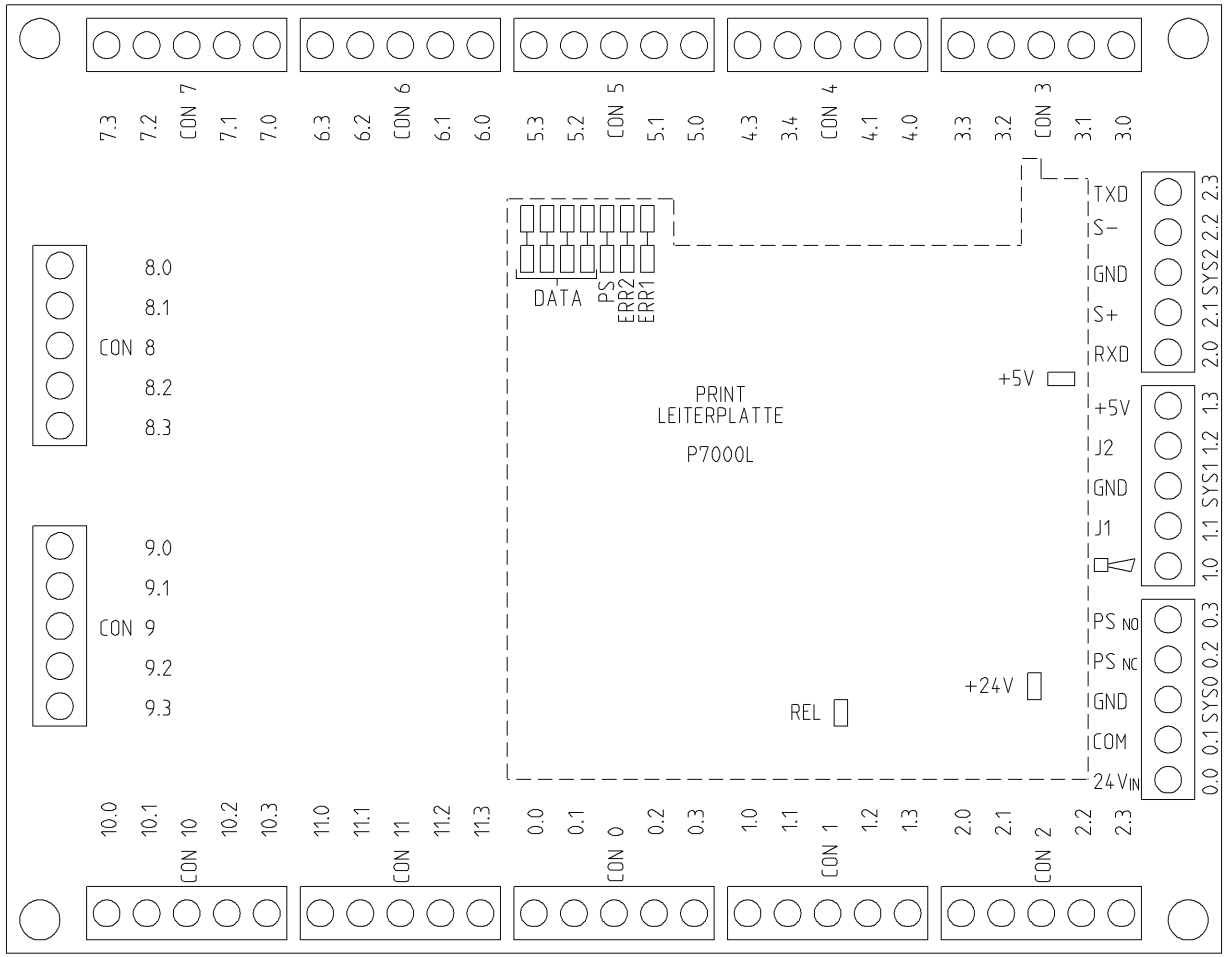
Datum:	Anlage:	Ort:	Blatt:
16.05.2017	=	+	31

PRINTPLAAT
LEITERPLATTE
CIRCUIT BOARD



+24V	Groen/Gruen/Green	Voeding Ok	Speisung Ok	Supply Ok
+5V	Groen/Gruen/Green	Voeding Ok	Speisung Ok	Supply Ok
REL	Groen/Gruen/Green	Power Safe aan	Power Safe an	Power Safe on
PS	Geel/Gelb/Yellow	Power Safe uit	Power Safe aus	Power Safe off
Err1	Geel/Gelb/Yellow	Slechte Data Verbinding	Schlechte Data Verbindung	Poor Data Connection
Err2	Rood/Rot/Red	Geen Data Verbinding	Keine Data Verbindung	No Data Connection

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PRINTPLAAT
LEITERPLATTE
CIRCUIT BOARD

Projekt: EQ-22-001	Zeichnungsnummer:	Rev.: B	erstellt von: Rothenbusch
Datum: 16.05.2017	Anlage: =	Ort: +	Blatt: 32

0.0	Joysick Op (S1A2)	Fahren Joy. Auf (S1A2)	Joysick On (S1A2)
0.1	Joysick Neer (S1A3)	Fahren Joy. Nied. (S1A3)	Joysick Down (S1A3)
CON 0			
0.2	Sturen Links (S1A4)	Lenken Links (S1A4)	Steering Left (S1A4)
0.3	Sturen Rechts (S1A5)	Lenken Rechts (S1A5)	Steering Right (S1A5)

1.0	Claxon (S2A3)	Hupe (S2A3)	Horn (S2A3)
1.1	Sper/Diff. (S2A1)	Sperr/Diff. (S2A1)	Slip/Diff. (S2A1)
CON 1			
1.2	Heffen/Dalen (S3A1)	Heben/Senken (S3A1)	Lift Up/Down (S3A1)
1.3	Rijden/Sturen (S3A3)	Fahren/Lenken (S3A3)	Driving/Steering (S3A3)

2.0	Snel Rijden (S4A)	Schnell Fahren (S4A)	Driving Fast (S4A)
2.1	Reserve	Reserve	Spare
CON 2			
2.2	Reserve	Reserve	Spare
2.3	Dodemansknopt (S1A1)	Totmansknopf (S1A1)	Dead Man (S1A1)

0.0	Voeding +24V (S1M)	Speisung +24V (S1M)	Supply +24V (S1M)
0.1	Voeding +24V (S1M)	Speisung +24V (S1M)	Supply +24V (S1M)
SYS0 GND	GND	GND	GND
0.2	Reserve	Reserve	Spare
0.3	Voeding +24V (PS)	Speisung +24V (PS)	Supply +24V (PS)

1.0	+ Zoemer (H1H)	+ Summer (H1H)	+ Buzzer (H1H)
1.1	0-5V Joystick P1	0-5V Joystick P1	0-5V Joystick P1
SYS1 GND	- Zoemer (H1H)	- Summer (H1H)	- Buzzer (H1H)
1.2	Reserve (0-5V)	Reserve (0-5V)	Spare (0-5V)
1.3	Voeding +5V Joy. (P1)	Speisung +5V Joy. (P1)	Supply +5V Joy. (P1)

2.0	Data RXD	Data RXD	Data RXD
2.1	Data S+ (RS485)	Data S+ (RS485)	Data S+ (RS485)
SYS2 GND	Reserve	Reserve	Spare
2.2	Data S- (RS485)	Data S- (RS485)	Data S- (RS485)
2.3	Data TXD	Data TXD	Data TXD

3.0	Hybrid Mode (S26A1)	Hybrid Mode (S26A1)	Hybrid Mode (S26A1)
3.1	Electric Mode (S26A3)	Elektro Mode (S26A3)	Electric Mode (S26A3)
CON 3			
3.2	4x Stempels in (S12A3)	4x Stuetzen ein (S12A1)	4x Jacks in (S12A1)
3.3	4x uit Au. Niv. (S12A2)	4x aus Au. Niv. (S12A2)	4x out Au. Niv.(S12A2)

4.0	Reserve	Reserve	Spare
4.1	Gen. aan Opt. (V6H)	Gen. an Opt. (V6H)	Gen. on Opt. (V6H)
CON 4			
4.2	Scheefstand qn (V2H)	Neigung qn (V2H)	Inclination (V2H)
4.3	Scheefstand rd (V2H)	Neigung rt (V2H)	Inclination rd (V2H)

5.0	Vetpomp Opt. (V7H)	Fett Pumpe Opt. (V7H)	Grease Pu. Opt. (V7H)
5.1	Overload (V1H)	Ueberlastung (V1H)	Overload (V1H)
CON 5			
5.2	Reserve	Reserve	Spare
5.3	Tank leeg (V8H)	Tank leer (V8H)	Tank empty (V8H)

6.0	Start Motor (S11A3)	Start Motor (S11A3)	Start Engine (S11A3)
6.1	Stop Motor (S11A1)	Halt Motor (S11A1)	Stop Engine (S11A1)
CON 6			
6.2	Gen. aan Opt. (S18A3)	Gen. an Opt. (S18A3)	Gen. on Opt. (S18A3)
6.3	Gen. uit Opt. (S18A1)	Gen. aus Opt. (S18A1)	Gen. off Opt. (S18A1)

7.0	Stempels LA in (S15A1)	Stuetzen LH ein (S15A1)	Jacks LR in (S15A1)
7.1	Stemp. LA uit (S15A3)	Stuetzen LH aus (S15A3)	Jacks LR out (S15A3)
CON 7			
7.2	Stempels RA in (S16A1)	Stuetzen RH ein (S16A1)	Jacks RR in (S16A1)
7.3	Stemp. RA uit (S16A3)	Stuetzen RH aus (S16A3)	Jacks RR out (S16A3)

8.0	Stempels LV in (S13A1)	Stuetzen LV ein (S13A1)	Jacks LF in (S13A1)
8.1	Stemp. LV uit (S13A3)	Stuetzen LV aus (S13A3)	Jacks LF out (S13A3)
CON 8			
8.2	Stempels RV in (S14A1)	Stuetzen RV ein (S14A1)	Jacks RF in (S14A1)
8.3	Stemp. RV uit (S14A3)	Stuetzen RV aus (S14A3)	Jacks RF out (S14A3)

9.0	Pendelas Hor. (V4H)	Pendel Achse Hor. (V4H)	Os. Axle Hor. (V4H)
9.1	Stempels in (V11H)	Stuetzen ein (V11H)	Jacks in (V11H)
CON 9			
9.2	Stempels uit (V5H)	Stuetzen aus (V5H)	Jacks out (V5H)
9.3	Auto Niv. (V9H)	Auto Niv. (V9H)	Auto Niv. (V9H)

10.0	In Bedrijf (V10H)	In Betrieb (V10H)	Run (V10H)
10.1	Storing Dieselm. (V3H)	Stoerung Dieselm. (V3H)	Failure Dieselm. (V3H)
CON 10			
10.2	Accu geladen (V16H)	Akku geladen (V16H)	Battery loaded (V16H)
10.3	Accu leeg (V16H)	Akku leer (V16H)	Battery empty (V16H)

11.0	Rijden/Sturen (V12H)	Fahren/Lenken (V12H)	Driving/Steering (V12H)
11.1	Heffen/Dalen (V13H)	Heben/Senken (V13H)	Lift Up/Down (V13H)
CON 11			
11.2	Hybrid Mode (V14H)	Hybrid Mode (V14H)	Hybrid Mode (V14H)
11.3	Electric Mode (V15H)	Elektro Mode (V15H)	Electric Mode (V15H)

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PRINTPLAAT
LEITERPLATTE
CIRCUIT BOARD

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