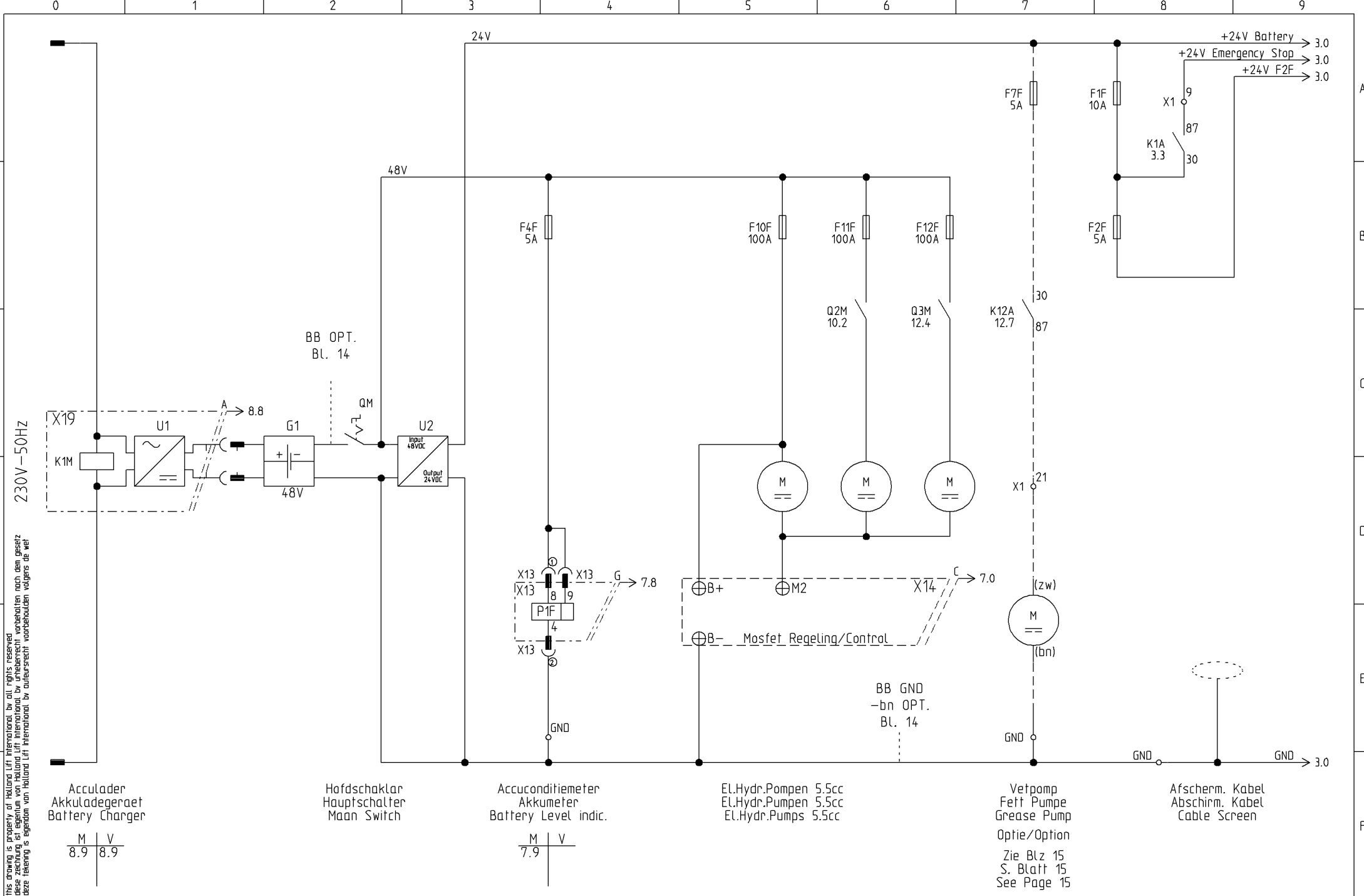


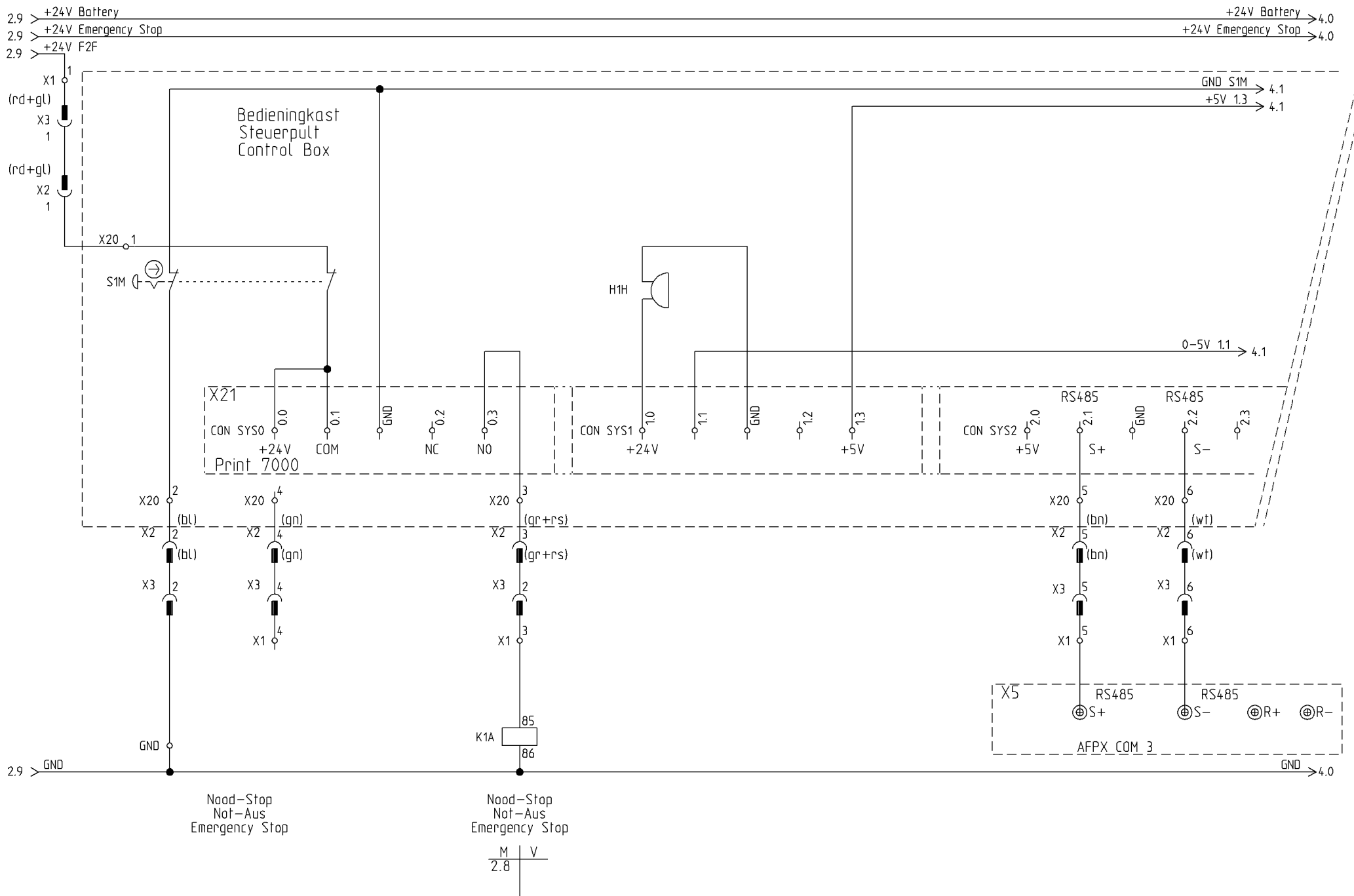
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AANSLUITKLEM KLEMMENKAST ⚔ ANSCHLUSSKLEMME KLEMMKASTEN TERMINAL CONNECTION BOX  AANSLUITKLEM BEDIENINGSKAST ⚔ ANSCHLUSSKLEMME STEUERPULT TERMINAL CONTROL BOX	AANSLUITKLEM TRANSISTOR ⊕ ANSCHLUSSKLEMME TRANSISTOR TERMINAL TRANSISTOR  AANSLUITKLEM PLC ⊕ ANSCHLUSSKLEMME SPS TERMINAL PLC	AANSLUITKLEM PLC-SLAVE ⚔ ANSCHLUSSKLEMME SPS-SLAVE TERMINAL PLC-SLAVE
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------

TYPE	OMSCHRIJVING UMSCHREIBUNG DESCRIPTION	PLC PROG: SPS PROG: PLC PROG:
N120-E-008	FPX-NMR	N-E-02A
N140-E-008	FPX-NMR	N-E-02A
N165-E-008	FPX-NMR	N-E-02A
N195-E-008	FPX-NMR	N-E-02A
REV.	DATUM DATUM DATE	OPMERKING BEMERKUNG REMARK



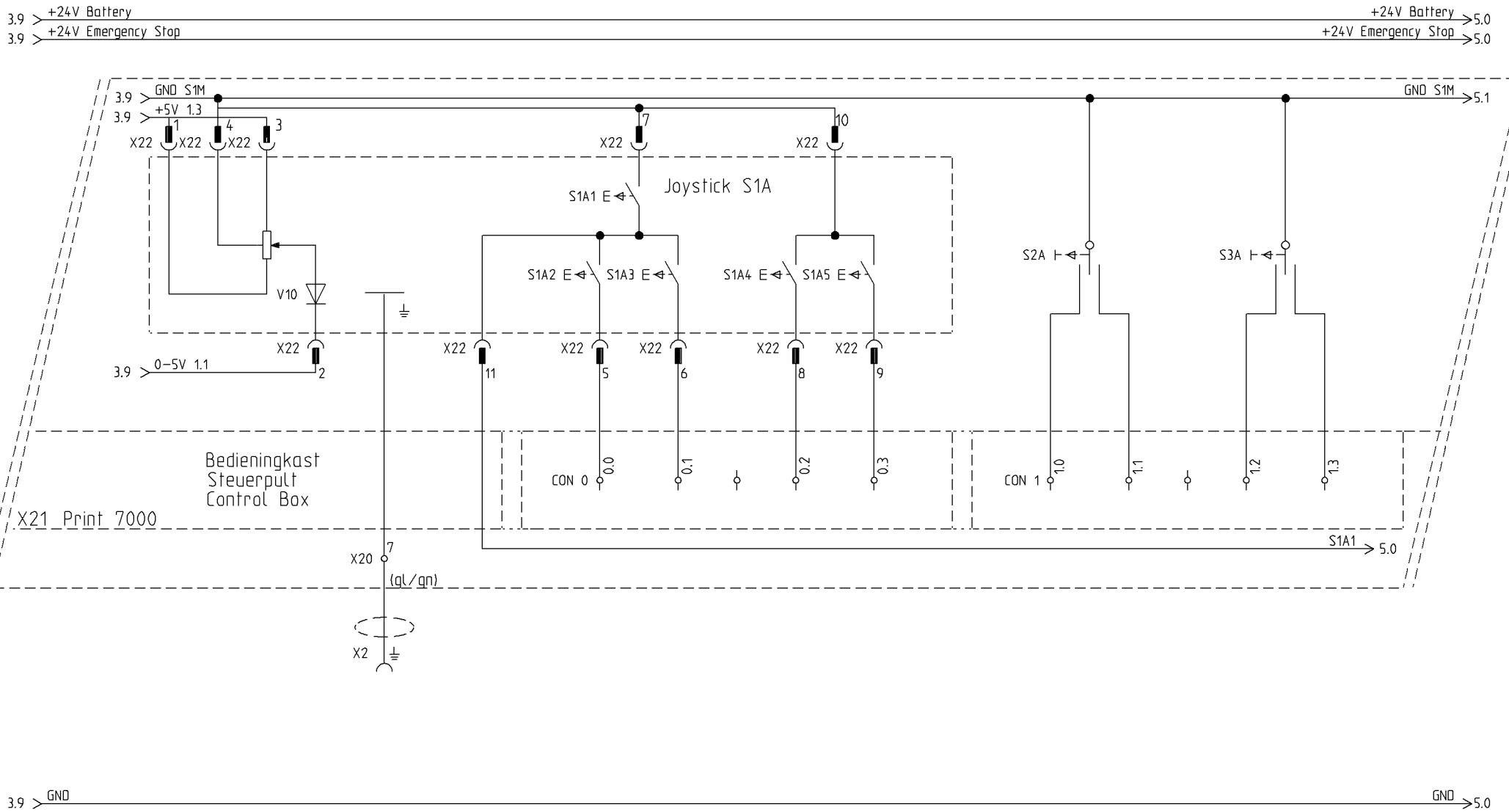
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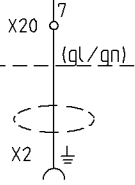
Bedienpult  
 CON SYSTEM

Projekt:	EN-20-001	Zeichnungsnummer:	Rev.:	erstellt von:
Datum:	22.08.2011	Anlage:	Ort:	Rothenbusch
				Blatt:
				3



Bedieningkast  
Steuerpult  
Control Box

X21 Print 7000



S1A1 Dodemansknop	Vooruit-Rijden-Achteruit	Links-Sturen-Rechts	Claxon-Sign.gever	Sper/Diff	Heffen	Dalen
S1A1 Totmansknop	Vorw.-Fahren-Rueckw.	Links-Lenken-Rechts	Hupe-Signalgeber	Sperr/Diff	Heben	Senken
S1A1 Dead Man,s Button	Forward-Driving-Reverse	Left-Steering-Right	Horn-Signal	Slip/Diff	Lift Up	Lift Down

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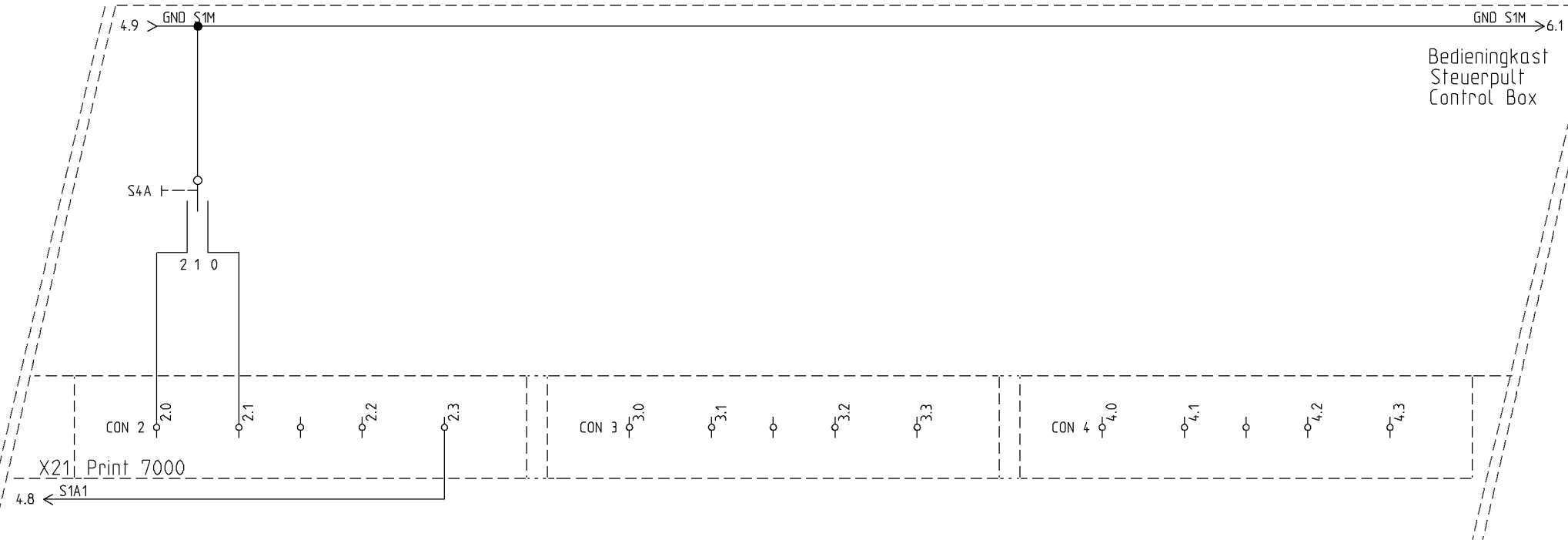
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Bedienpult  
CON 0-1

Projekt: EN-20-001	Zeichnungsnummer:	Rev.:	erstellt von: Rothenbusch
Datum: 22.08.2011	Anlage: =	Ort: +	Blatt: 4

4.9 > +24V Battery  
 4.9 > +24V Emergency Stop

+24V Battery >6.0  
 +24V Emergency Stop >6.0



Bedieningkast  
 Steuerpult  
 Control Box

S4A

0	=	Langzaam	Langsam	Slow
1	=	Normaal	Normal	Normal
2	=	Snel	Schnell	Fast

4.9 > GND

GND >6.0

Snelheid  
 Geschwindigkeit  
 Speed

S1A1 Dodemansknop  
 S1A1 Totmanskopf  
 S1A1 Dead Man's Button

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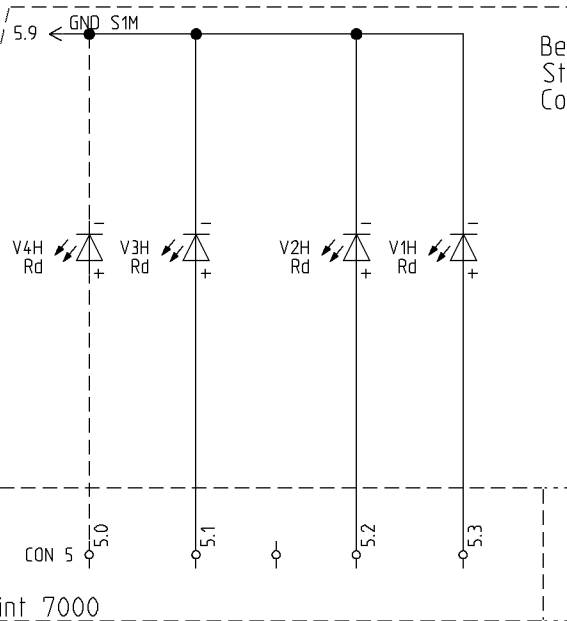
Bedienpult  
 CON 2 - 4

Projekt:	EN-20-001	Zeichnungsnummer:	Rev.:	erstellt von:
Datum:	22.08.2011	Anlage:	Ort:	Rothenbusch
		=	+	Blatt:
				5

5.9 > +24V Battery  
5.9 > +24V Emergency Stop

+24V Battery >7.0  
+24V Emergency Stop >7.0  
+24V U3 >7.0

Bedieningkast  
Steuerpult  
Control Box



X21, Print 7000

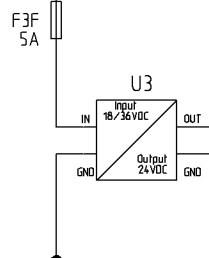
5.9 > GND

Vetpomp  
Fett Pumpe  
Grease Pump  
Optie/Option

Overload  
Ueberlastung  
Overload

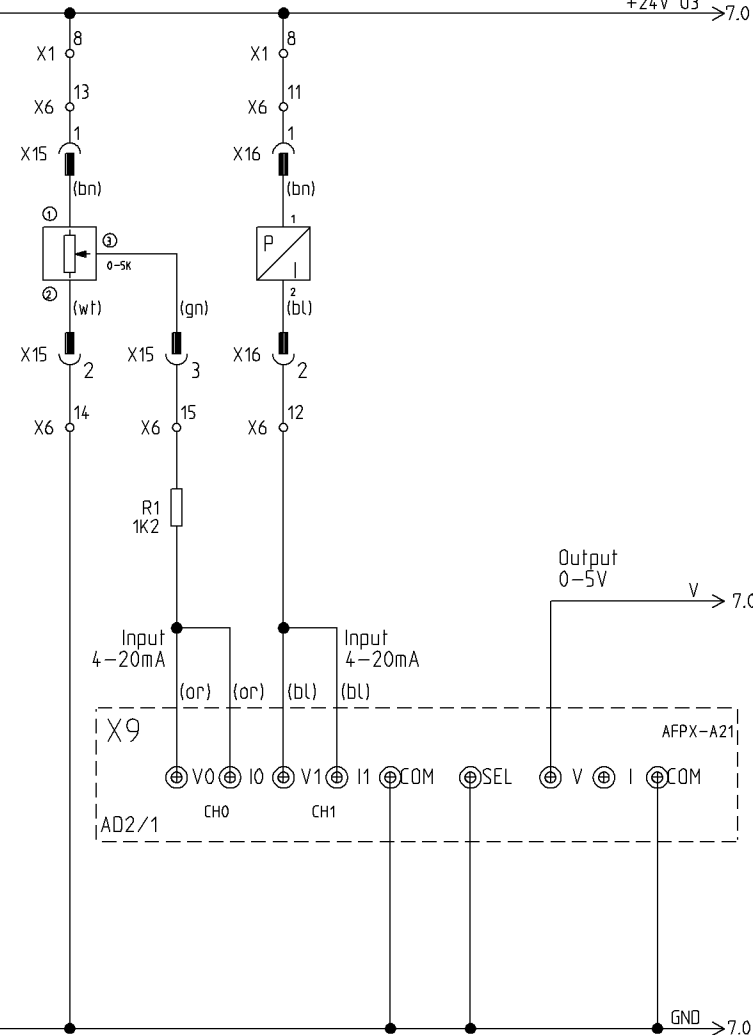
Scheefstand  
Neigung  
Grade/Slope

Accu Leeg  
Akku Leer  
Bat. Empty



Hoekmeting  
Winkel Messung  
Angle Measuring

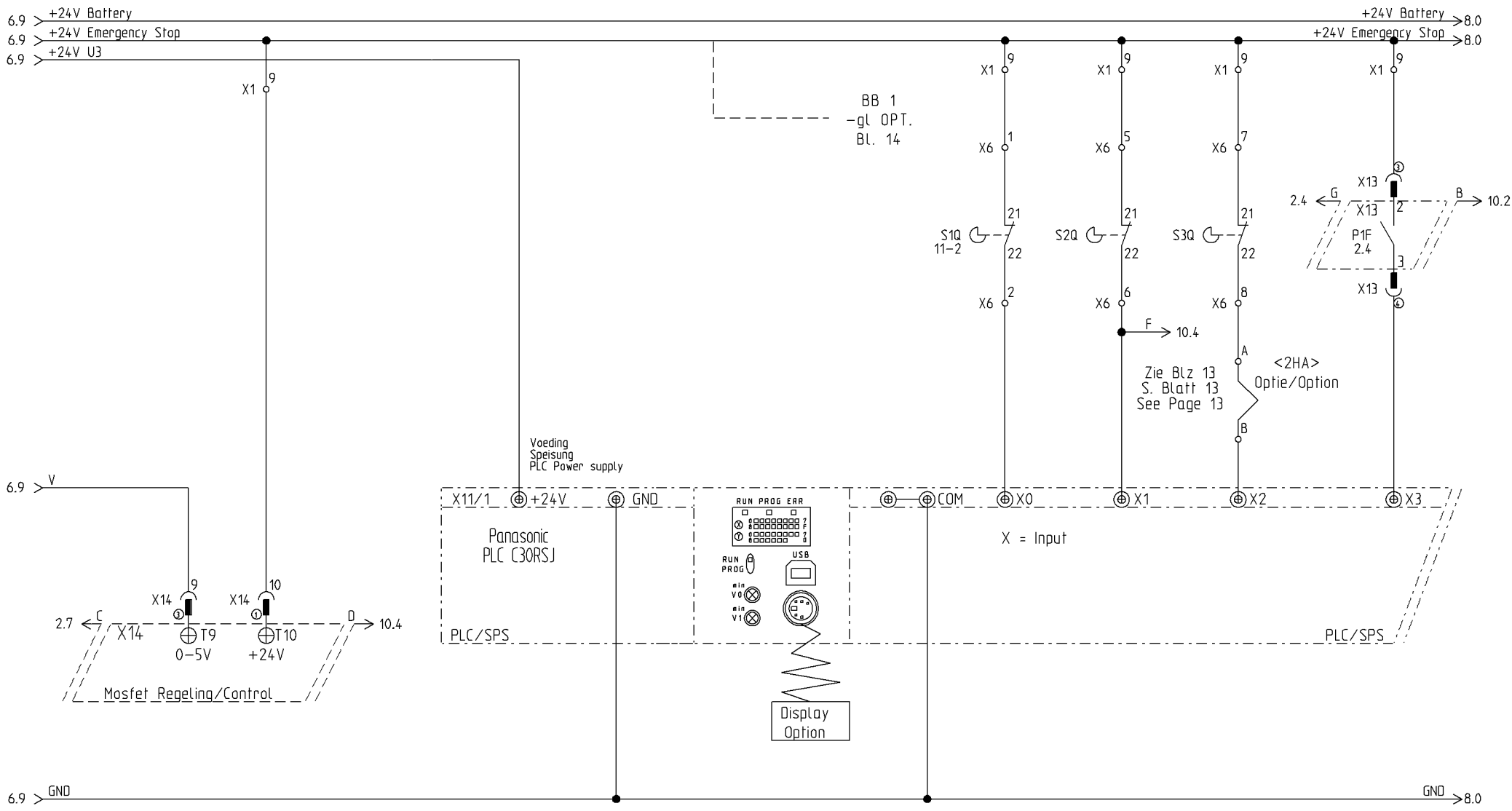
Druk Meting  
Druck Messung  
Pressure Measuring



GND >7.0

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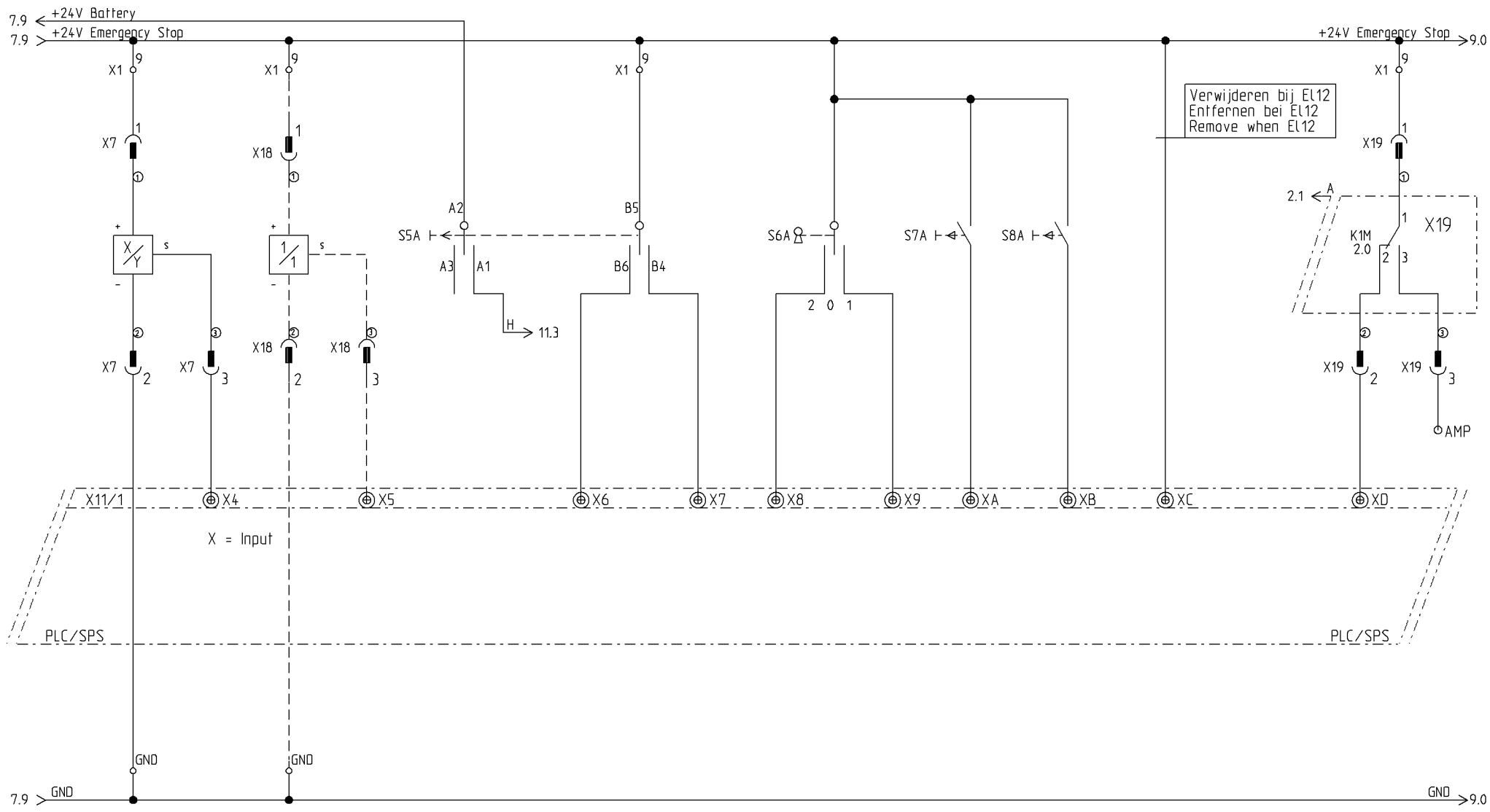


2,5 mtr. Afslag  
 2,5 mtr. Ausschalt.  
 2,5 mtr. Cut-Out

4 mtr. Afslag  
 4 mtr. Ausschalt.  
 4 mtr. Cut-Out

Max. Hodgte  
 Max. Hoehe  
 Max. Height

Accuconditiemeter  
 Akkumeter  
 Battery Level indic.



Scheefstand Neiging Grade/Slope	Scheefstand 1/1 Neiging 1/1 Grade/Slope 1/1 Optie/Option	Dalen Onderwagen Senken Chassis Lift Down Chassis	Heffen - Dalen Heben - Senken Lift Up - Lift Down	Pragr. Uit Pragr. Aus Pragr. Off	Aan An On	Store Store Store	Save Save Save	Overbr. Daalbev Ueberbr. Senkschutz Bridge Lift down protec.	Acculader Akkuladegeraet Battery Charger
---------------------------------------	-------------------------------------------------------------------	---------------------------------------------------------	---------------------------------------------------------	----------------------------------------	-----------------	-------------------------	----------------------	--------------------------------------------------------------------	------------------------------------------------

— Overlast-Ueberlastung-Overload —

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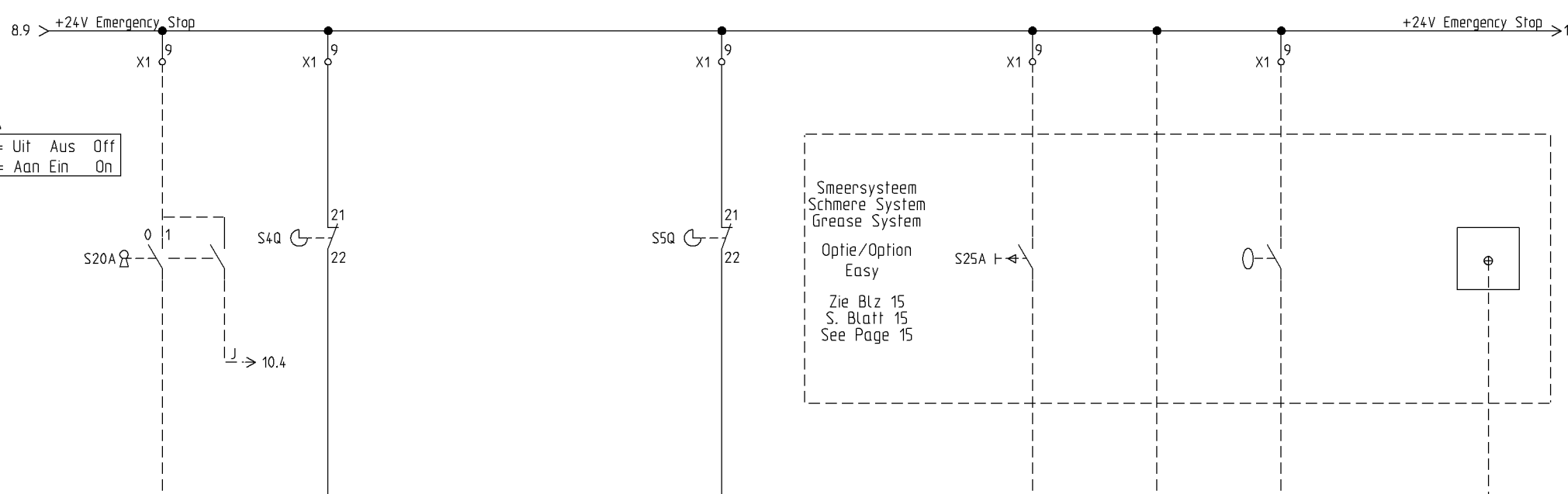
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SPS Input  
X4 - XD

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Datum: 22.08.2011	Anlage: =	Ort: +	Blatt: 8



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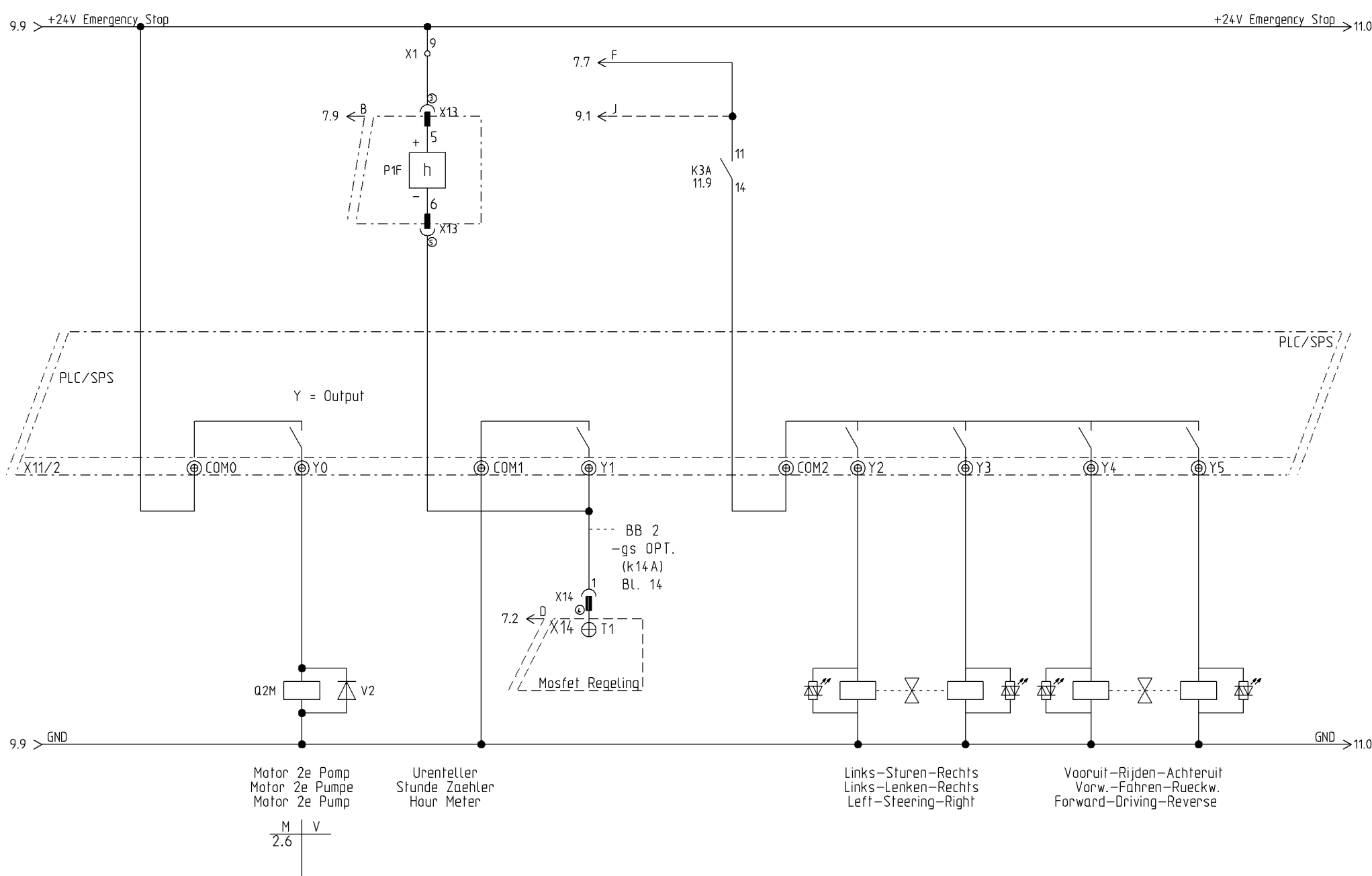
Ri. max. Hoogte Fa. max. Hoehe Dr. max. Height Optie/Option	Stab. links uit Stab. links aus Stab. left out	Stab. rechts uit Stab. rechts aus Stab. right out	Reserve Reserve Spare	Reserve Reserve Spare	Start Start Start Optie/Option	Overbr. Smeersyst. Ueberbr. Schmere Syst Jumper Grease Syst. Optie/Option	Vlattier Schwimmshalter Fladt Switch Optie/Option	Hli Test Smeersyst. Hli Test Schmere Syst. Hli Test Grease Syst. Optie/Option
----------------------------------------------------------------------	------------------------------------------------------	---------------------------------------------------------	-----------------------------	-----------------------------	-----------------------------------------	------------------------------------------------------------------------------------	------------------------------------------------------------	----------------------------------------------------------------------------------------



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SPS Input  
 XE - XF  
 X30.0 - X30.7

Projekt: EN-20-001	Zeichnungsnummer:	Rev.:	erstellt von: Rothenbusch
Datum: 22.08.2011	Anlage: =	Ort: +	Blatt: 9



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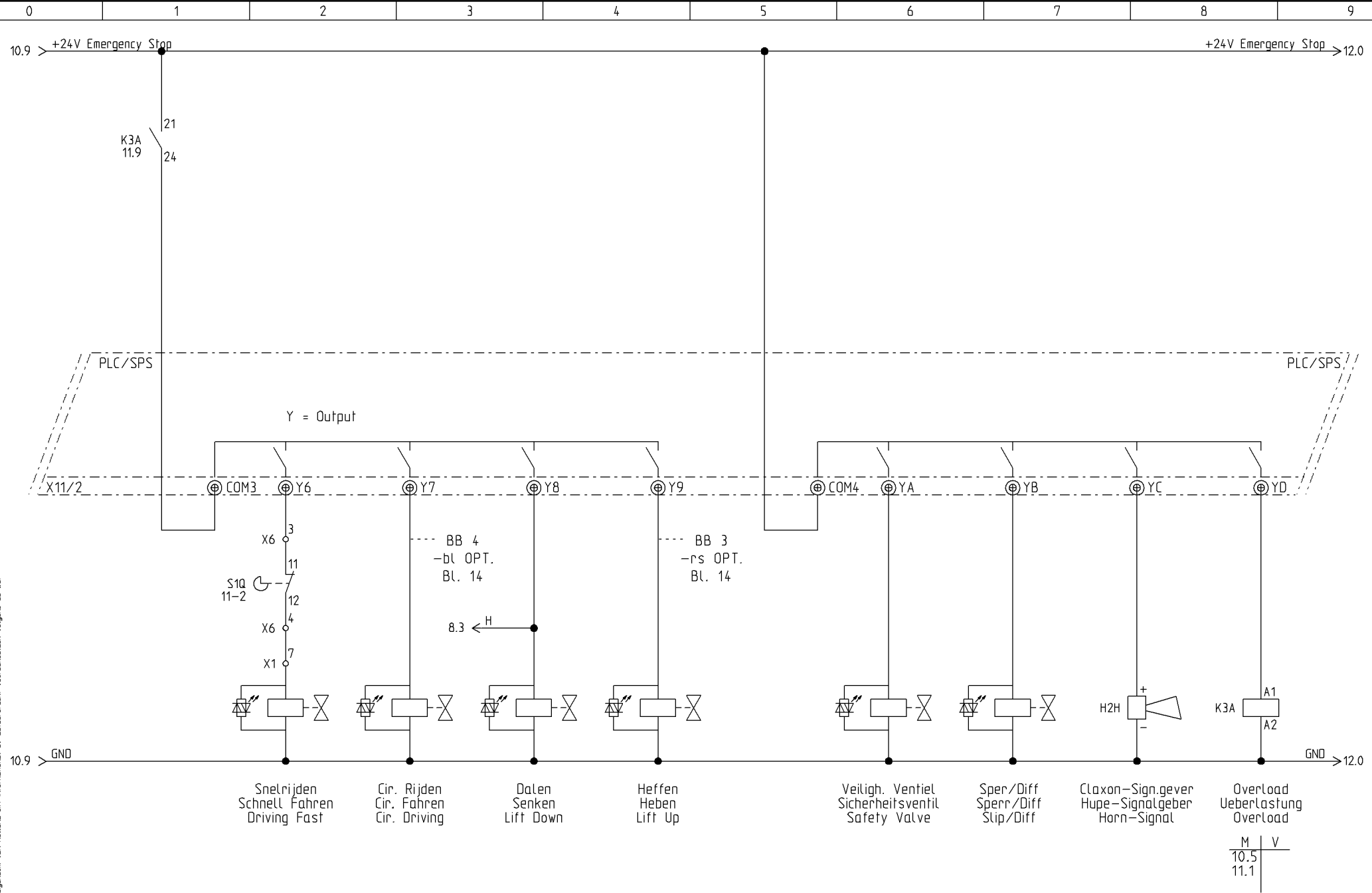
SPS Output  
 Y0 - Y5

Projekt: EN-20-001  
 Datum: 22.08.2011

Zeichnungsnummer:  
 Anlage: =  
 Ort: +

Rev.:  
 erstellt von: Rothenbusch  
 Blatt: 10

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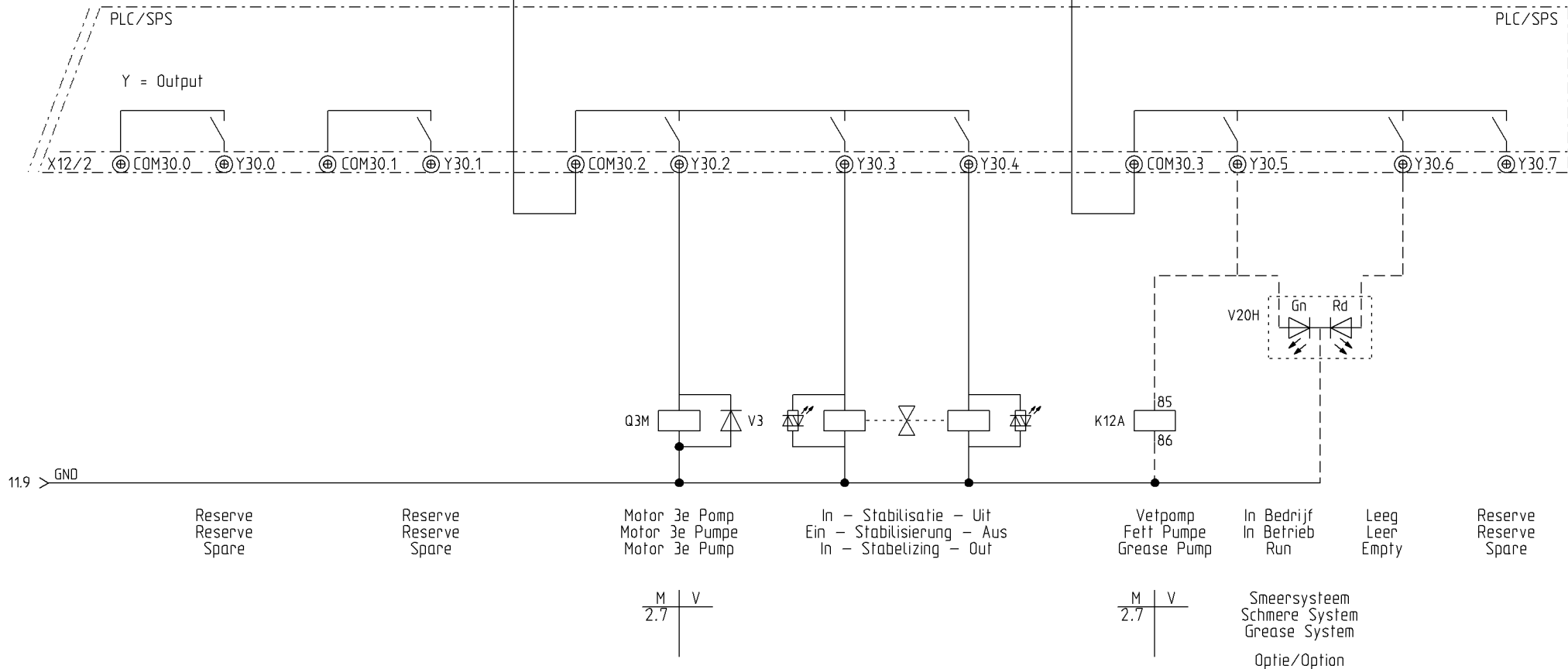
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SPS Output  
 Y6 - YD

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		=	+	Blatt:
				11

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11.9 > +24V Emergency Stop



Reserve  
Reserve  
Spare

Reserve  
Reserve  
Spare

Motor 3e Pump  
Motor 3e Pumpe  
Motor 3e Pump

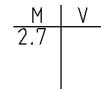
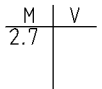
In - Stabilisatie - Uit  
Ein - Stabilisierung - Aus  
In - Stabelizing - Out

Vetpomp  
Fett Pumpe  
Grease Pump

In Bedrijf  
In Betrieb  
Run

Leeg  
Leer  
Empty

Reserve  
Reserve  
Spare



Smeersysteem  
Schmere System  
Grease System  
Optie/Option



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SPS Output  
Y30.0 - Y30.7

Projekt:  
EN-20-001  
Datum:  
22.08.2011

Zeichnungsnummer:  
Anlage:  
=

Rev.:  
Ort:  
+

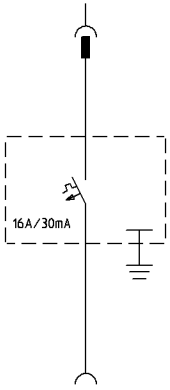
erstellt von:  
Rothenbusch  
Blatt:  
12

OPTIES  
OPTIONEN  
OPTIONS

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

<230VPLF>

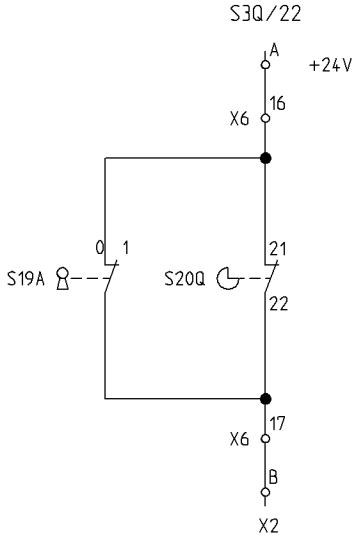
230V-50Hz/115V-50Hz



AARDLEKAUTOMAAT  
FI SCHALTER  
EARTH DETECTOR

2e HOOGTE AFSLAG  
2e HOEHE AUSSCHALTUNG  
2nd HEIGHT CUT-OUT

<2HA>



Zie Blz 7  
S. Blatt 7  
See Page 7

S19A  
0 = Max. Hoogte/Max. Hoehe/Max. Height  
1 = 2e HOOGTE AFL./2e H. AUSS./2nd H. CUT-OUT

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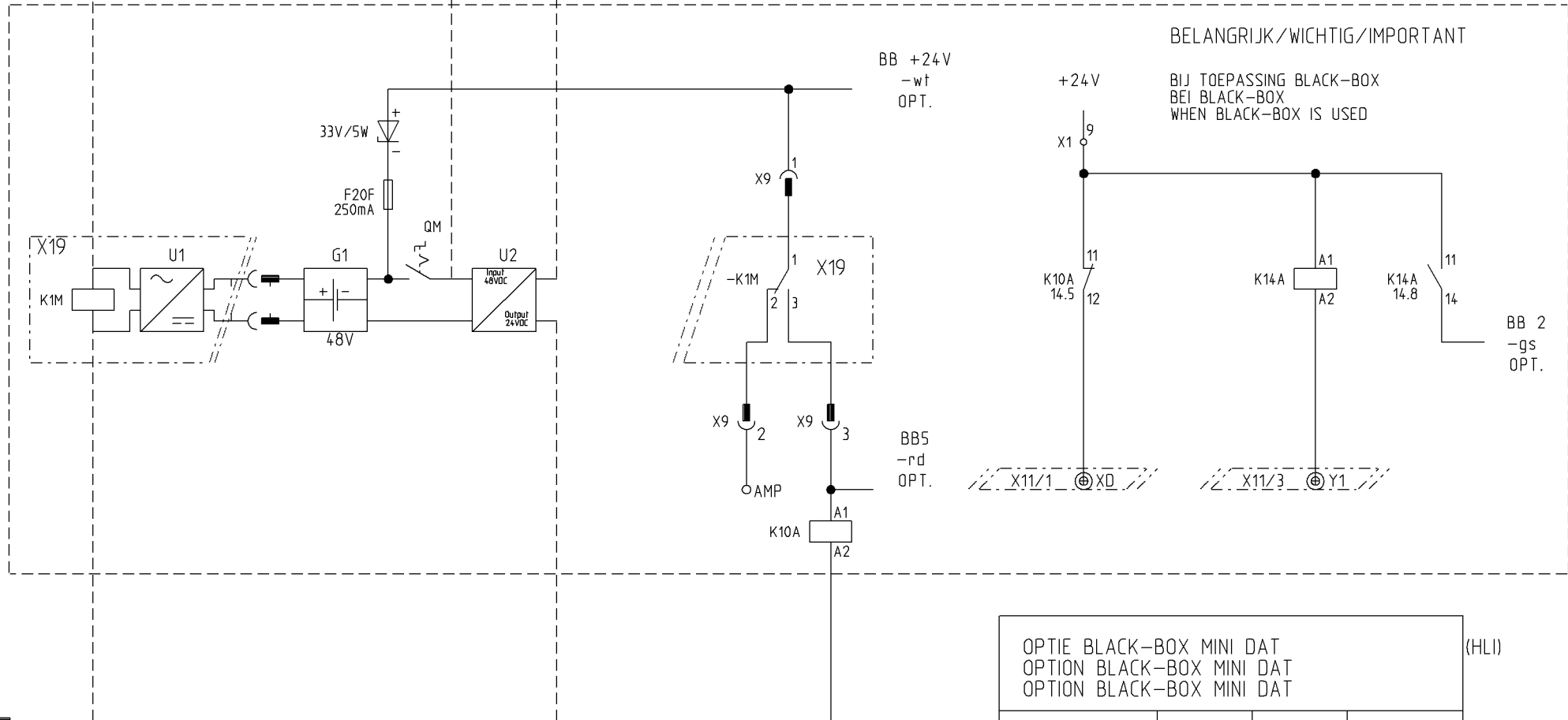
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Optionen

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230V - 50Hz

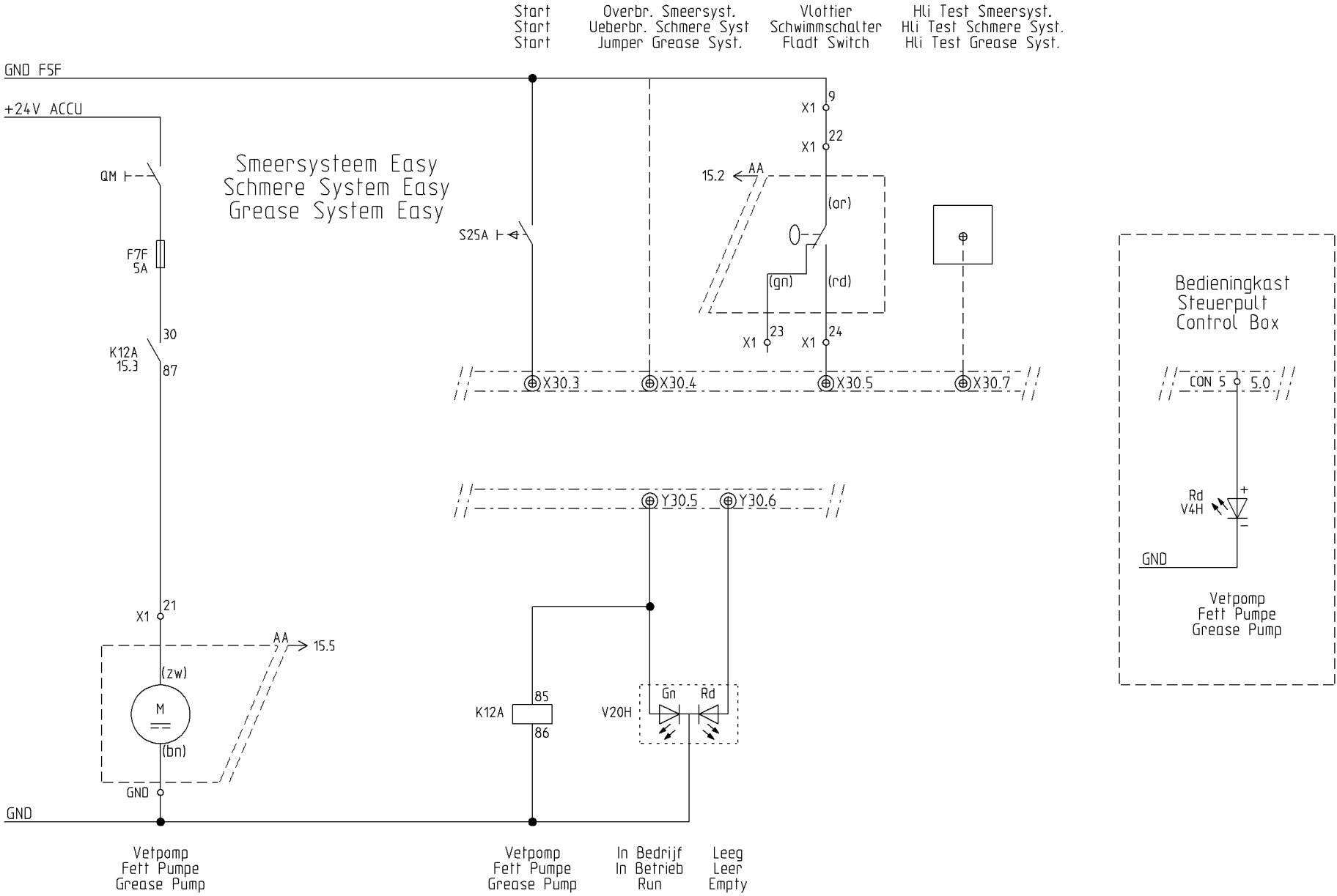


Acculader  
Akkuladegeraet  
Battery Charger

OPTIE BLACK-BOX MINI DAT (HLI)  
 OPTION BLACK-BOX MINI DAT  
 OPTION BLACK-BOX MINI DAT

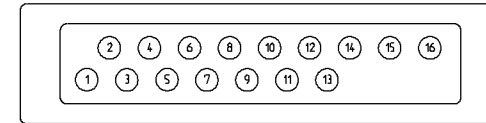
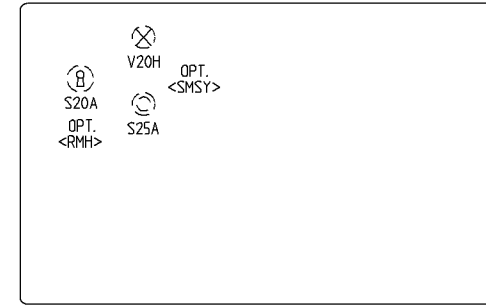
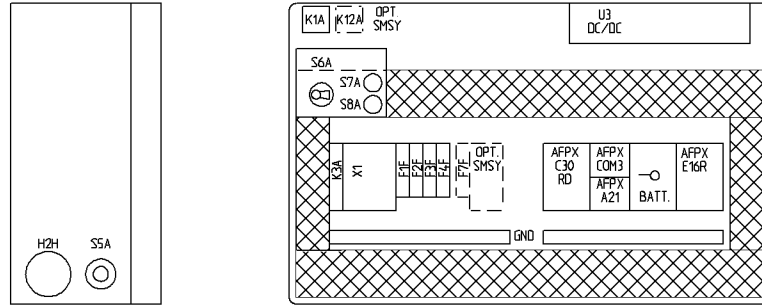
BB-wt	+24V DC	+24V DC	+24V DC	+24V DC
BB-bn	GND	GND	GND	GND
BB-gl	CH1	IN BEDRIJF	IN BETRIEB	RUNNING
BB-gs	CH2	MOTOR 1	MOTOR 1	MOTOR 1
BB-rs	CH3	HEFFEN	HEBEN	LIFT UP
BB-bl	CH4	RIJDEN	FAHREN	DRIVING
BB-rd	CH5	LAADTIJD	LADEZEIT	CHARGE TIME

OPTIES  
OPTIONEN  
OPTIONS



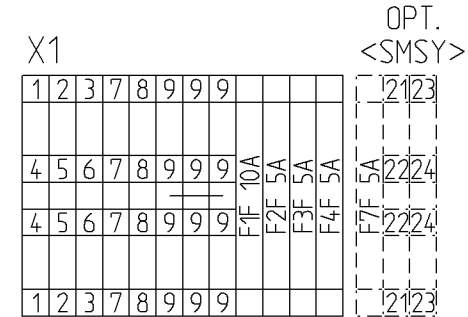
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# KLEMMENKAST KLEMMENKASTEN CONNECTION BOX

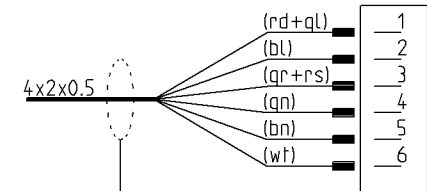


WARTEL KABELEINF. GLAND NR.	KLEM KLEMMEN TERMINAL NR	FUNKTIE	FUNKTION	FUNCTION
1	DIV/VAR	Aansl. 6P Platform	Anschl. 6P Plattform	Conn. 6P Platform
2.1	DIV/VAR	Smeersysteem Opt.	Schmiere System Opt.	Grease System Opt.
2.2	φ9-RES-V-Y1	Mosfet Motorregeling	Mosfet Motorregelung	Mosfet Motor Control
3	DIV/VAR	Lasdoos X6	Verteilerdose X6	Connection Box X6
4.1	Y2-GND	Sturen Links	Lenken Links	Steering Left
4.2	Y3-GND	Sturen Rechts	Lenken Rechts	Steering Right
5.1	Y9-GND	Heffen	Heben	Lift Up
5.2	Y7-GND	Cir. Ventiel Rijden	Cir. Ventil Fahren	Cir. Valve Diving
6.1	Y4-GND	Rijden Vooruit	Fahren Vorwaerts	Driving Forward
6.2	Y5-GND	Rijden Achteruit	Fahren Rueckwaerts	Driving Reverse
7.1	φ7-GND	Snelrijden	Schnell Fahren	Driving Fast
7.2	YA-GND	Veiligheids Ventiel	Sicherheitsventil	Safety Valve
8	YB-GND	Sper/Diff. Ventiel	Sperr/Diff. Ventil	Slip/Diff. Valve
9.1	Y0-GND	Motor 2e Pomp (Q2M)	Motor 2e Pomp (Q2M)	Motor 2e Pomp (Q2M)
9.2	Y30.2-GND	Motor 3e Pomp (Q3M)	Motor 3e Pomp (Q3M)	Motor 3e Pomp (Q3M)
10.1	DIV/VAR	Accumeter	Akkumeter	Batterymeter
10.2	φ9-GND-X4	Scheefstand	Neigung	Inclination
11.1	F1F-GND	Accu +/- 24VDC	Akku +/- 24VDC	Battery +/- 24VDC
11.2	F4F-GND	Accu +/- 48VDC	Akku +/- 48VDC	Battery +/- 48VDC
12.1	φ9-XD-RES	Acculader	Akkuladegeraet	Battery Charger
12.2	φ9-GND-X5	Scheefstand Opt.	Neigung Opt.	Inclination Opt.
13.1	Y30.3-GND	Stabilisatie In	Stabilisierung Ein	Stabelizing In
13.2	Y30.4-GND	Stabilisatie Uit	Stabilisierung Aus	Stabelizing Out
14.1	φ9-XF	Stabilisatie Links Uit	Stabilisierung Links Aus	Stabelizing Left Out
14.2	φ9-X30.0	Stabilisatie Rechts Uit	Stabilisierung Rechts Aus	Stabelizing Right Out
15	Res./Spare	Minidat Optie	Minidat Option	Minidat Option
16	Res./Spare	Res./Spare	Res./Spare	Res./Spare

1-16 M20



AANSLUITING OP PLATFORM  
ANSCHLUSS AUF PLATTFORM  
CONNECTION ON PLATFORM



Afscherming  
niet aansluiten  
(aftapen)

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Kosten/Bekabeling  
Kosten/Bekabelung  
Boxes/Cables

Projekt: EN-20-001  
Datum: 22.08.2011

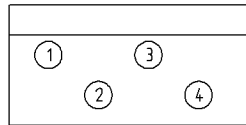
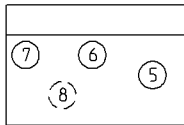
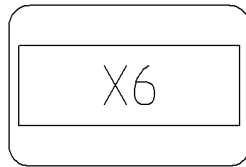
Zeichnungsnummer:  
Anlage: =

Rev.:  
Ort: +

erstellt von:  
Rothenbusch  
Blatt: 16



LASDOOS AFSLAGEN (X6)  
 VERTEILERDOSE HOEHEAUSSCHALTUNG (X6)  
 MAXIMUM HEIGHT DISTRBUOR BOX (X6)



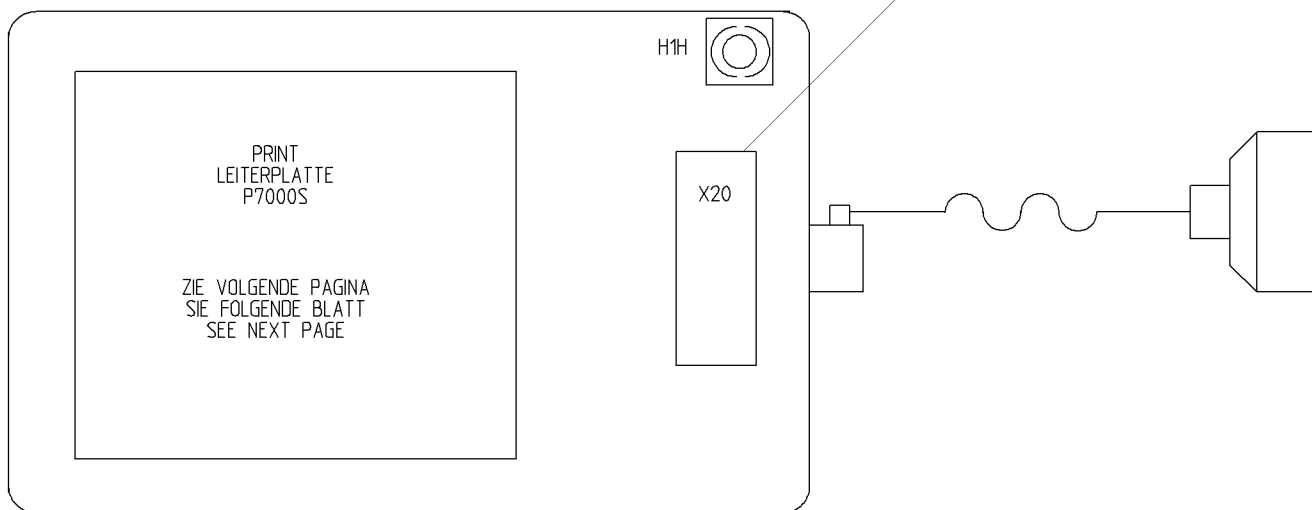
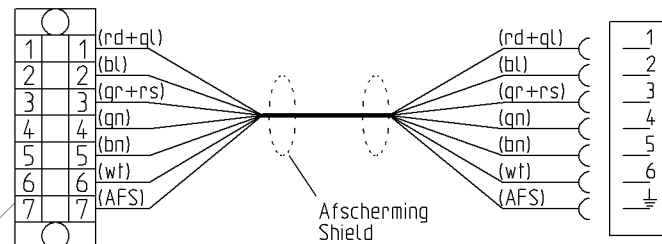
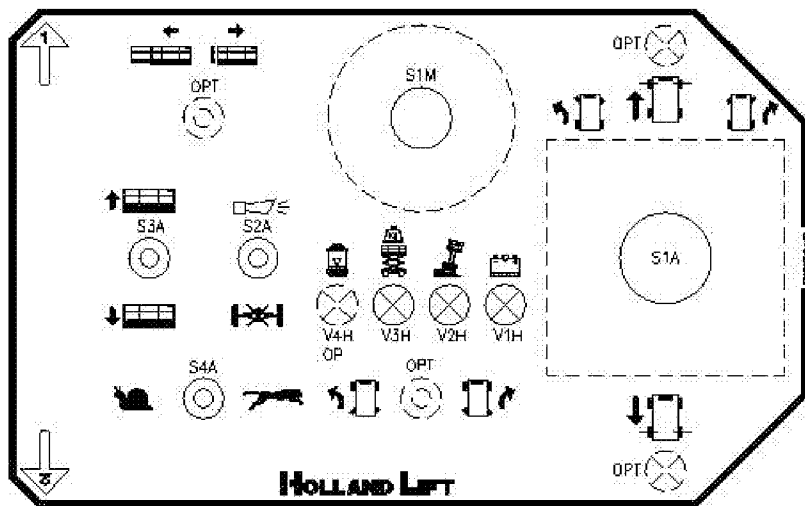
2-4/6-8 M12  
 1 M16  
 5 M20

WARTEL KABELINF. GLAND NR. (X6)	Omschrijving	Beschreibung	Description
1	4mtr. Afslag S1Q	4mtr. Ausschaltung S1Q	4mtr. Cut-out S1Q
2	8mtr. Afslag S2Q	8mtr. Ausschaltung S2Q	8mtr. Cut-out S2Q
3	Max. Hooqte Afslag S3Q	Max. Hoehe Ausschaltung S3Q	Max. Height Cut-out S3Q
4	Dalen	Senken	Lift Down
5	Kabel Klemmenkast	Kabel Klemmenkasten	Cable Connection Box
6	Druk Meting	Druck Messung	Pressure Measuring
7	Hoekmeting	Winkel Messung	Angle Measuring
8	2e hooqte Afslag Optie	2e Hoehe Ausschaltung Option	2nd Height Cut-out Option

KABEL KLEMMENKAST KABEL KLEMMENKASTEN CABLE CONNECITON BOX (18x1)	KLEM KLEMME TERMINAL NR. (KLEMMENKAST)	KLEM KLEMME TERMINAL NR. (X6)	Omschrijving	Beschreibung	Description
1	φ9	1	4mtr. Afslag S1Q	4mtr. Ausschaltung S1Q	4mtr. Cut-out S1Q
2	X0	2	4mtr. Afslag S1Q	4mtr. Ausschaltung S1Q	4mtr. Cut-out S1Q
3	φ7	3	4mtr. Afslag S1Q	4mtr. Ausschaltung S1Q	4mtr. Cut-out S1Q
4	Y6	4	4mtr. Afslag S1Q	4mtr. Ausschaltung S1Q	4mtr. Cut-out S1Q
5	φ9	5	8mtr. Afslag S2Q	8mtr. Ausschaltung S2Q	8mtr. Cut-out S2Q
6	X1	6	8mtr. Afslag S2Q	8mtr. Ausschaltung S2Q	8mtr. Cut-out S2Q
7	φ9	7	Max. Hooqte Afslag S3Q	Max. Hoehe Ausschaltung S3Q	Max. Height Cut-out S3Q
8	X2	8	Max. Hooqte Afslag S3Q	Max. Hoehe Ausschaltung S3Q	Max. Height Cut-out S3Q
9	Y8	9	Dalen	Senken	Lift Down
10	GND	10	Dalen	Senken	Lift Down
11	φ8	11	Druk Meting	Druck Messung	Pressure Measuring
12	V1 AMP	12	Druk Meting	Druck Messung	Pressure Measuring
13	φ8	13	Hoekmeting	Winkel Messung	Angle Measuring
14	GND	14	Hoekmeting	Winkel Messung	Angle Measuring
15	V0 AMP	15	Hoekmeting	Winkel Messung	Angle Measuring
16	Optie/Option	16	2e hooqte Afslag Optie	2e Hoehe Ausschaltung Option	2nd Height Cut-out Option
17	Optie/Option	17	2e hooqte Afslag Optie	2e Hoehe Ausschaltung Option	2nd Height Cut-out Option
18	Res./Spare				

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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/Bekabelung  
 Kasten/Bekabelung  
 Boxes/Cables

Projekt:  
 EN-20-001

Zeichnungsnummer:

Rev.:

erstellt von:  
 Rothenbusch

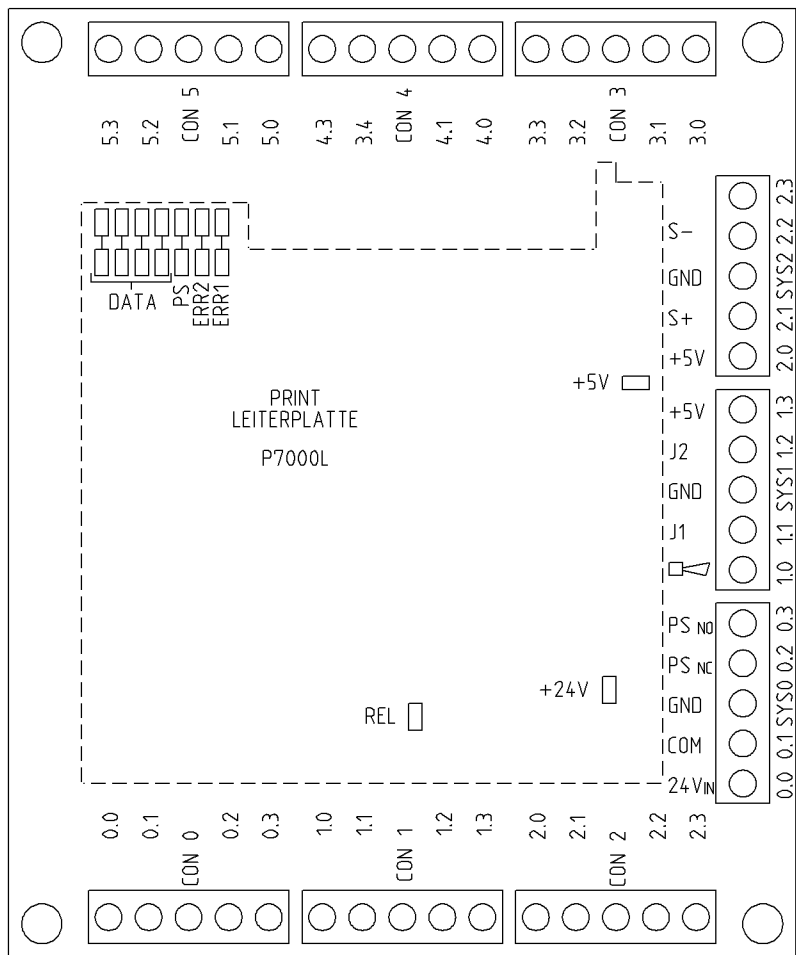
Datum:  
 22.08.2011

Anlage:

Ort:

Blatt:  
 18

PRINTPLAAT  
LEITERPLATTE  
CIRCUIT BOARD



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

0.0	Rijden Vooruit (S1A2)	Fahren Vorwaerts (S1A2)	Driving Forward (S1A2)
0.1	Rijden Achteruit (S1A3)	Fahren Rueck. (S1A3)	Driving Reverse (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 (S2A1)	Hupe (S2A1)	Horn (S2A1)
1.1	Sperr/Diff. (S2A2)	Sperr/Diff. (S2A2)	Slip/Diff. (S2A2)
CON 1			
1.2	Heffen (S3A1)	Heben (S3A1)	Lift up (S3A1)
1.3	Dalen (S3A2)	Senken (S3A2)	Liftdown (S3A2)

2.0	Snel Rijden (S4A1)	Schnell Fahren (S3A1)	Driving Fast (S3A1)
2.1	Langzaam Rij. (S4A2)	Langsam Fahren (S4A2)	Driving Slow (S4A1)
CON 2			
2.2	Reserve	Reserve	Spare
2.3	Dodemansknop (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	Reserve (+5V)	Reserve (+5V)	Spare (+5V)
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	Reserve	Reserve	Spare

3.0	Reserve	Reserve	Spare
3.1	Reserve	Reserve	Spare
CON 3			
3.2	Reserve	Reserve	Spare
3.3	Reserve	Reserve	Spare

4.0	Reserve	Reserve	Spare
4.1	Reserve	Reserve	Spare
CON 4			
4.2	Reserve	Reserve	Spare
4.3	Reserve	Reserve	Spare

5.0	Vetpomp (V4H) Opt.	Fett Pumpe (V4H) Opt.	Grease Pump (V4H) Opt
5.1	Overload (V3H)	Ueberlastung (V3H)	Overload (V3H)
CON 5			
5.2	Scheefstand (V2H)	Neigung (V2H)	Inclination (V2H)
5.3	Accu Leeg (V1H)	Akku leer (V1H)	Battery empty (V1H)

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Printplaat  
 Leiterplatte  
 Circuit Board

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