

AANSLUITKLEM KLEMMENKAST ⚡ ANSCHLUSSKLEMME KLEMMKASTEN TERMINAL CONNECTION BOX  AANSLUITKLEM BEDIENINGSKAST ⚡ ANSCHLUSSKLEMME STEUERPUIT 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:
HL160E20		MODULAR ELECTRIC	HL190_E_20_HL220_E_12_02A
HL190E20		MODULAR ELECTRIC	HL190_E_20_HL220_E_12_02A
REV.	DATUM DATUM DATE	OPMERKING BEMERKUNG REMARK	
B	06-11-17	4 WD / OSCILLATING AXLE (OPT.) / HD PLATFORM (OPT.)	

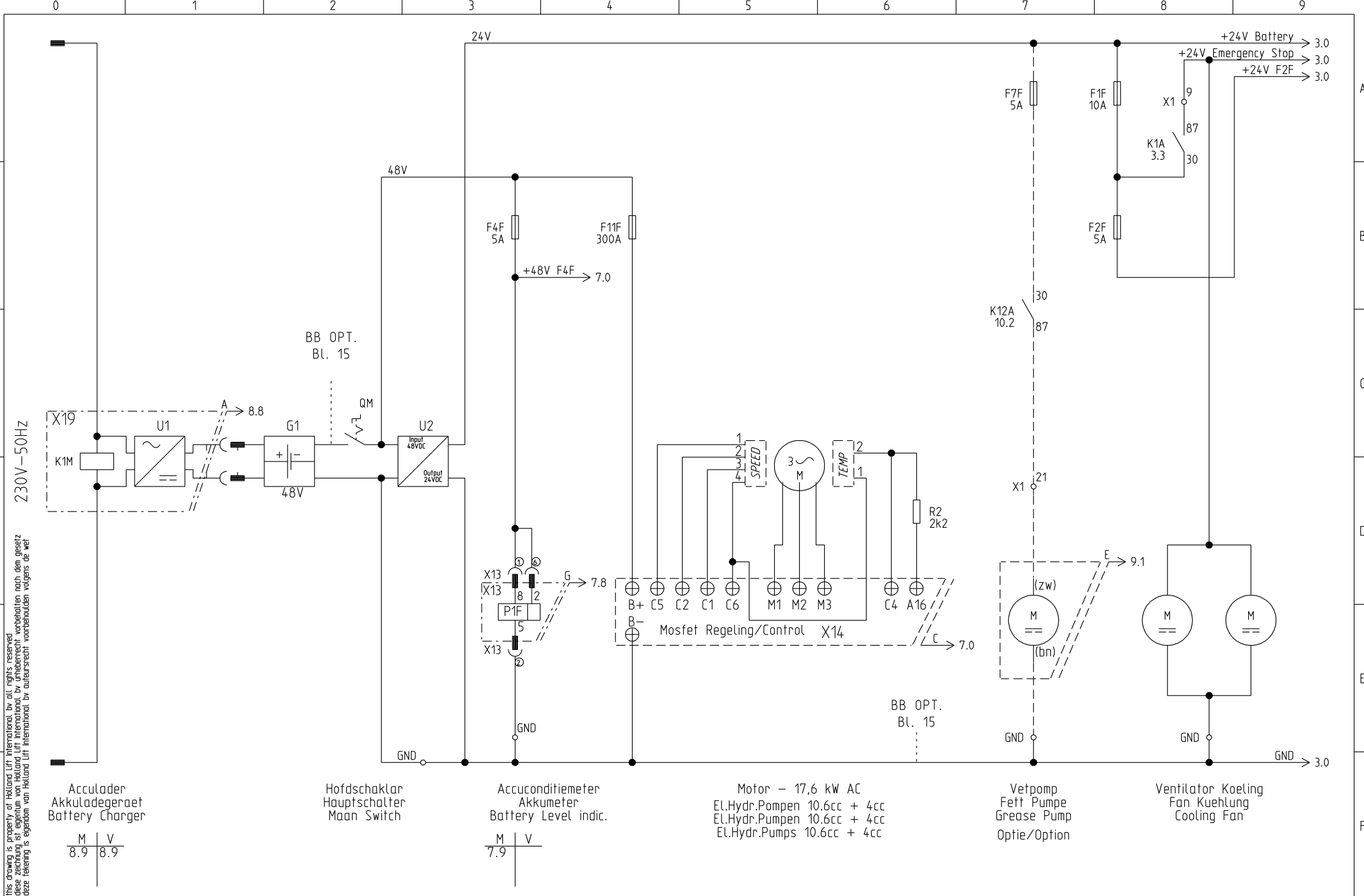
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INDEX BLAD  
 INDEX BLATT  
 INDEX SHEET

Projekt:	EQ-21-001	Zeichnungsnummer:	Rev.:	B	erstellt von:	Rothenbusch	
Datum:	06.11.2017	Anlage:	=	Ort:	+	Blatt:	1



Acculader  
Akkuladegeraet  
Battery Charger

M	V
8.9	8.9

Hofdschaklar  
Hauptschalter  
Maan Switch

Accuconditiemeter  
Akkumeter  
Battery Level indic.

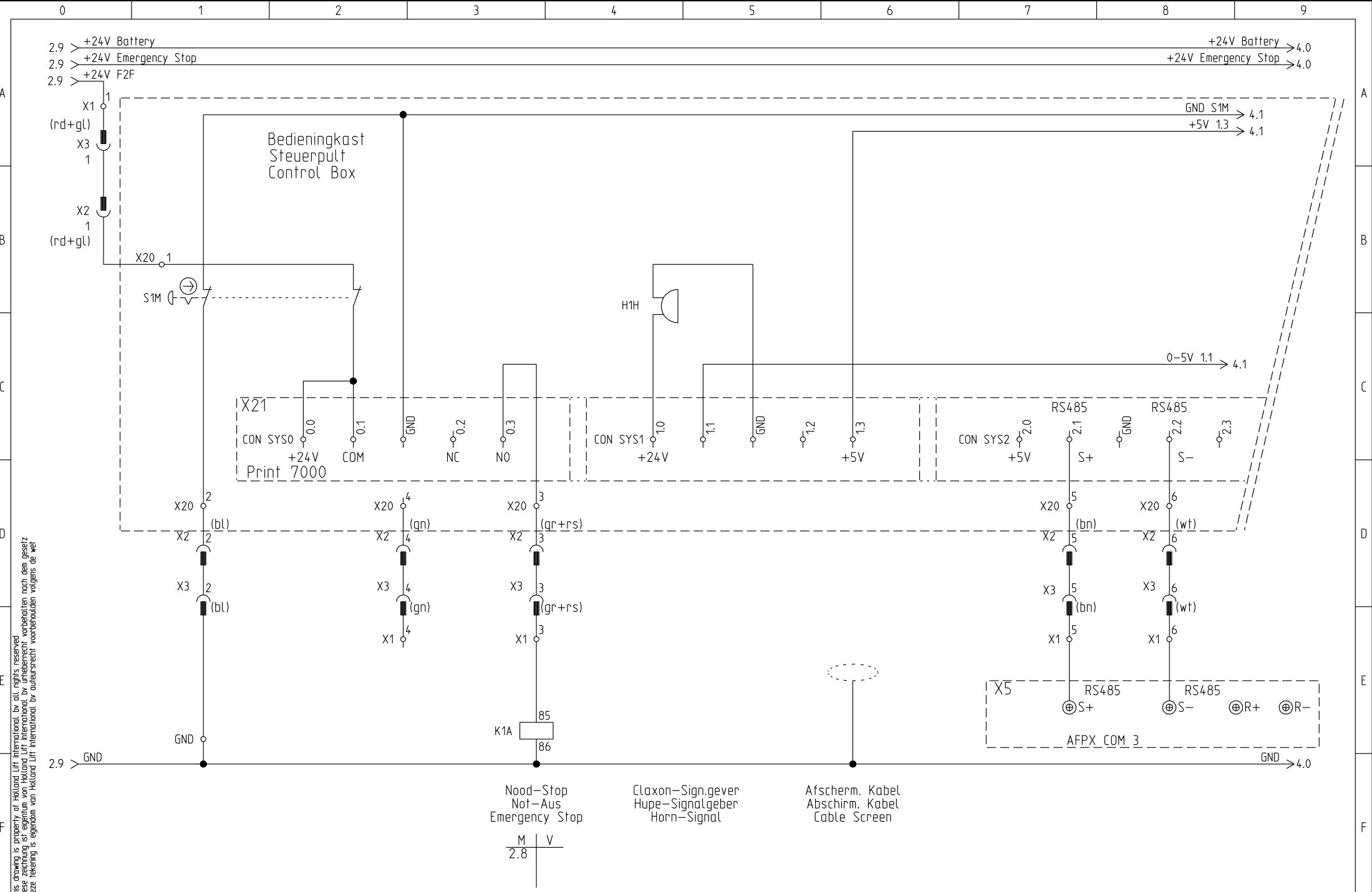
M	V
7.9	

Motor - 17,6 kW AC  
EL.Hydr.Pumpen 10.6cc + 4cc  
EL.Hydr.Pumpen 10.6cc + 4cc  
EL.Hydr.Pumps 10.6cc + 4cc

Vetpomp  
Fett Pumpe  
Grease Pump  
Optie/Option

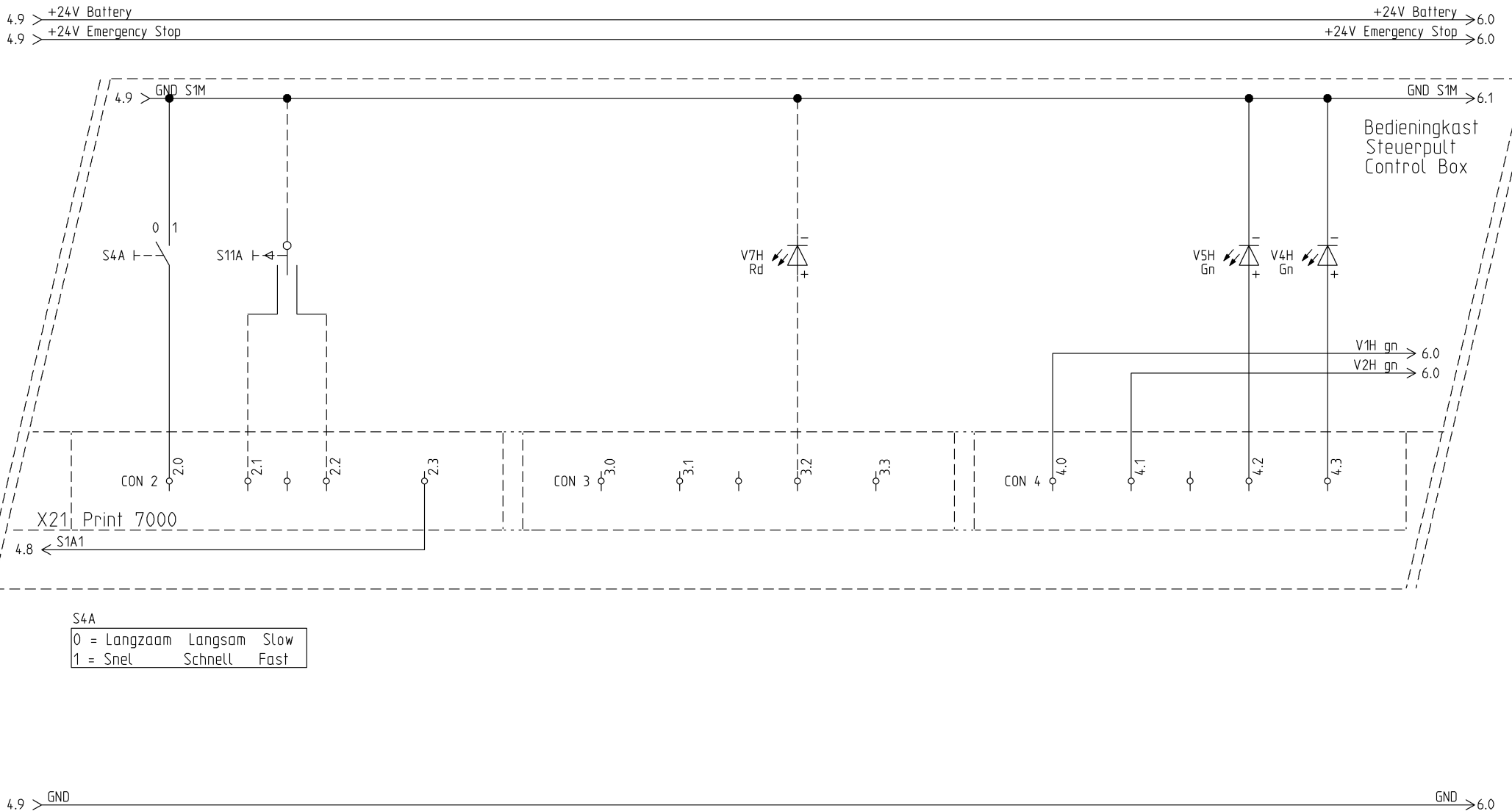
Ventilator Koeling  
Fan Kuehlung  
Cooling Fan

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S4A  
 0 = Langzaam Langsam Slow  
 1 = Snel Schnell Fast

Snelheid In-Plattform-Uit S1A1 Dodemansknop  
 Geschwindigkeit Ein-Plattform-Aus S1A1 Totmansknopf  
 Speed In-Plattform-Out S1A1 Dead Man's Button  
 Optie/Option

Pendelas Horizontaal V7H Rd  
 Pendel Achse Hor. V5H Gn  
 Oscillating Axle Hor. V4H Gn  
 Optie/Option

Accu gn Scheefstand gn Heffen/Dalen Rijden/Sturen  
 Akku gn Neiging gn Heben/Senken Fahren/Lenken  
 Battery gn Grade/Slope gn Lift Up/Lift Down Driving/Steering

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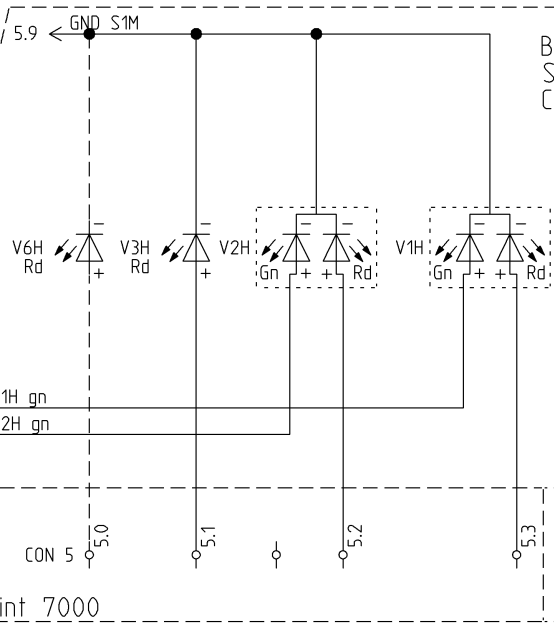
STROOMKRINGSCHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

Projekt: EQ-21-001	Zeichnungsnummer:	Rev.: B	erstellt von: Rothenbusch
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5.9 > +24V Battery  
5.9 > +24V Emergency Stop

+24V Battery > 7.0  
+24V Emergency Stop > 7.0  
+24V U3 > 8.0

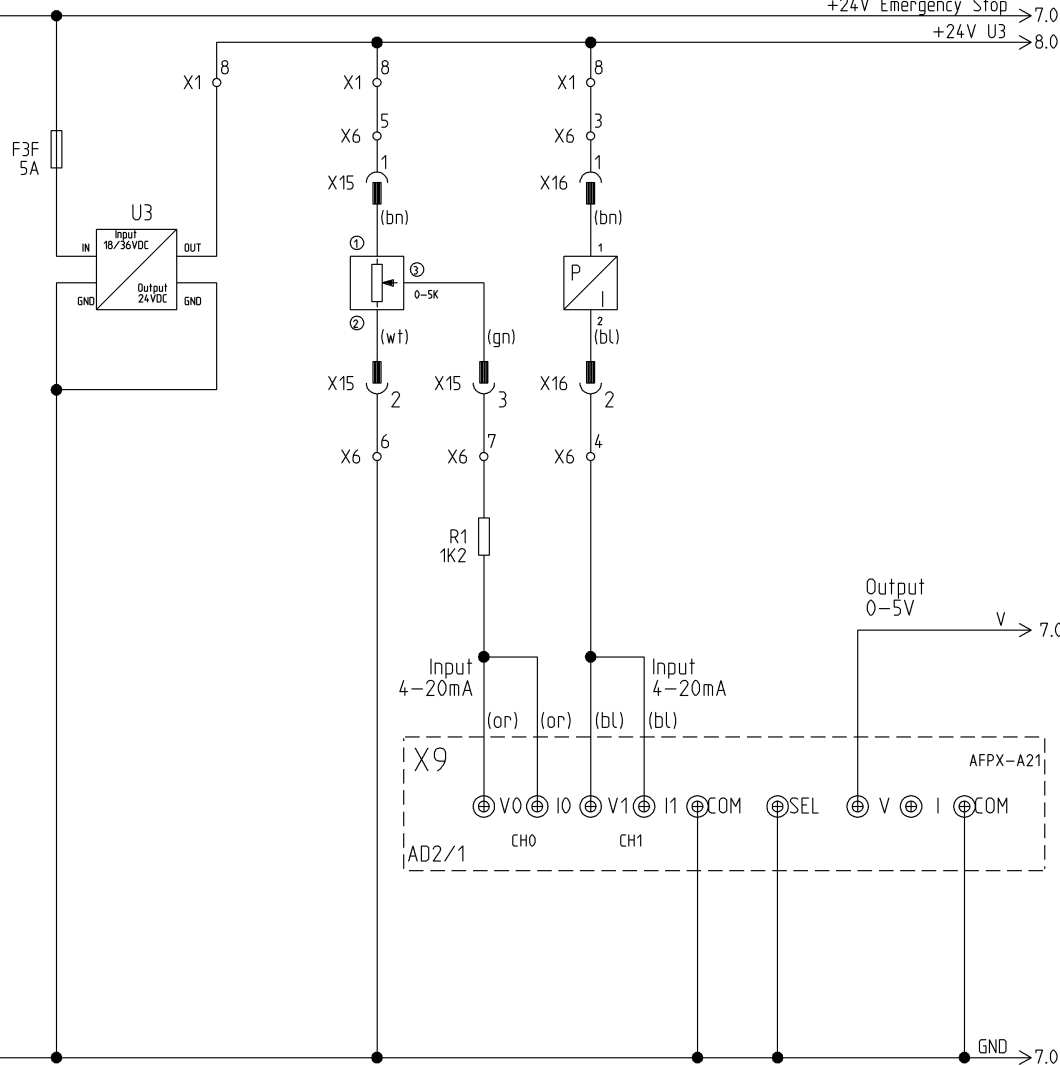
Bedieningskast  
Steuerpult  
Control Box



V1H	gn: Accu geladen	gl: Accu waarschuwing	rd: Accu Leeg
	gn: Akku geladen	gl: Akku Warnung	rt: Akku Leer
	gn: Battery loaded	yl: Battery warning	rd: Battery Empty

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

Vetpomp      Overload      Scheefstand rd      Accu rd  
Fett Pumpe    Ueberlastung    Neigung rt          Akku rt  
Grease Pump    Overload      Grade/Slope rd      Batttery rd  
Optie/Option



Hoekmeting      Druk Meting  
Winkel Messung    Druck Messung  
Angle Measuring    Pressure Measuring

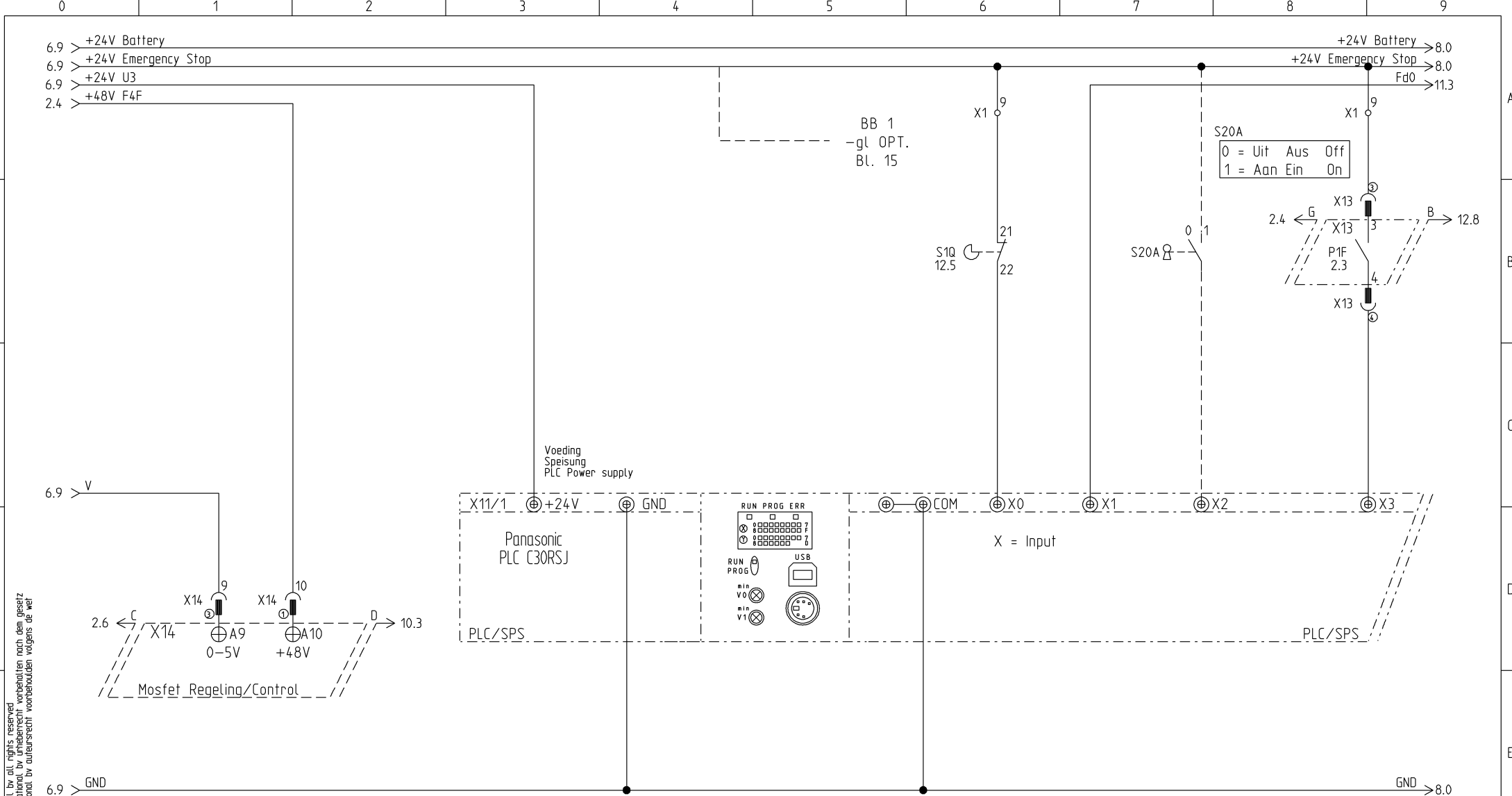
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STROOMKRINGSHEMA  
STROMLAUFPLAN  
CIRCUIT DIAGRAM

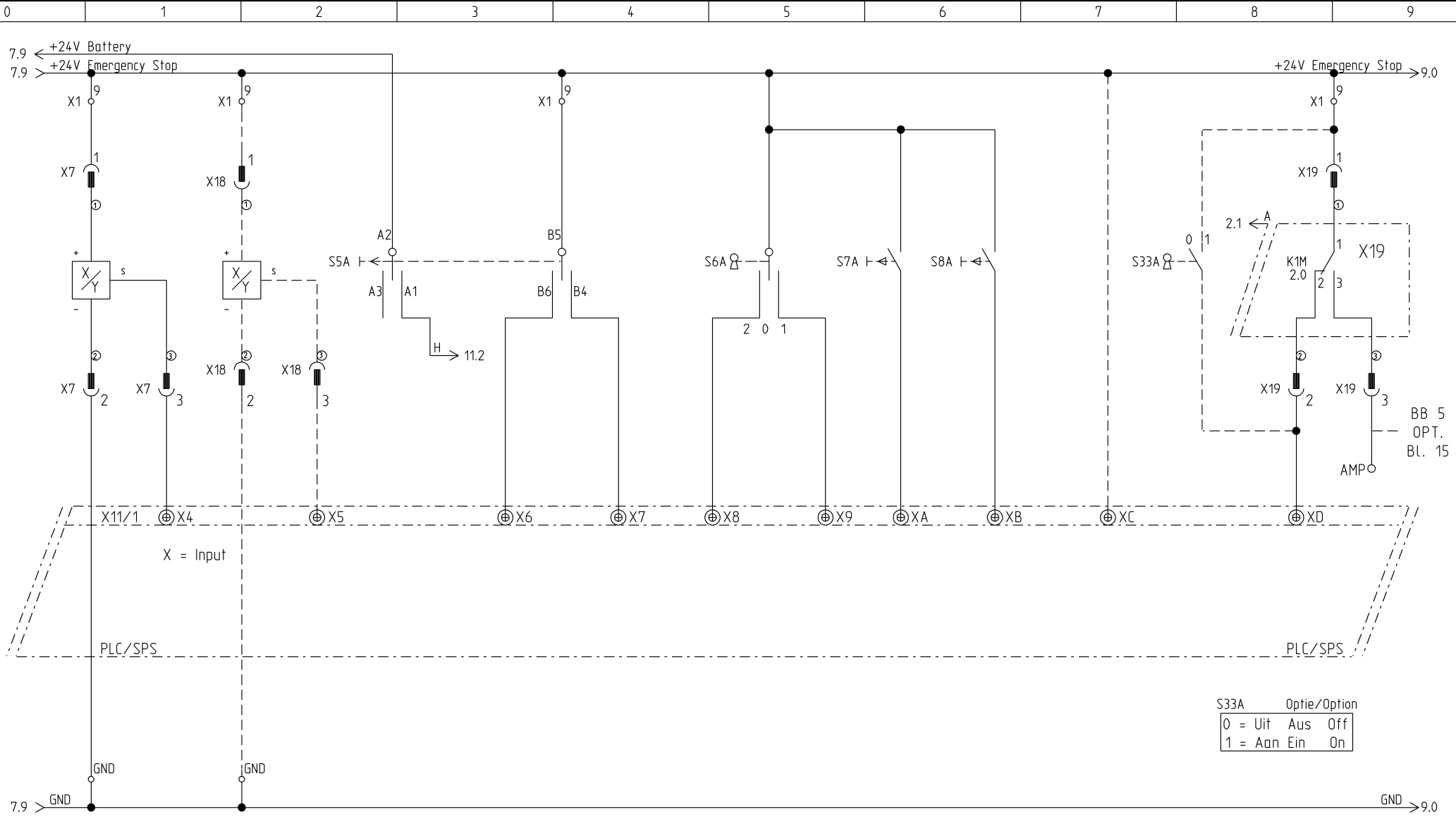
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4 mtr. Afslag Feedback In 0 Ri. max. Hoogte Accuconditiemeter  
 4 mtr. Ausschalt. Feedback In 0 Fa. max. Hoehe Akkumeter  
 4 mtr. Cut-Out Feedback In 0 Dr. max. Height Battery Level indic.  
 Optie/Option

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- Scheefstand 1  
Neigung 1  
Grade/Slope 1
- Scheefstand 2  
Neigung 2  
Grade/Slope 2  
Optie/Option
- Daten Onderwagen  
Senken Chassis  
Lift Down Chassis
- Heffen – Dalen  
Heben – Senken  
Lift Up – Lift Down
- Progr. Uit  
Progr. Aus  
Progr. Off
- Aan  
An  
On
- Store  
Store  
Store
- Save  
Save  
Save
- Overbr. Smeersyst.  
Ueberbr. Schmere Syst  
Jumper Grease Syst.
- Acculader  
Akkuladegeraet  
Battery Charger

— Overlast—Ueberlastung—Overload —

Optie/Option

S33A	Optie/Option
0	= Uit Aus Off
1	= Aan Ein On



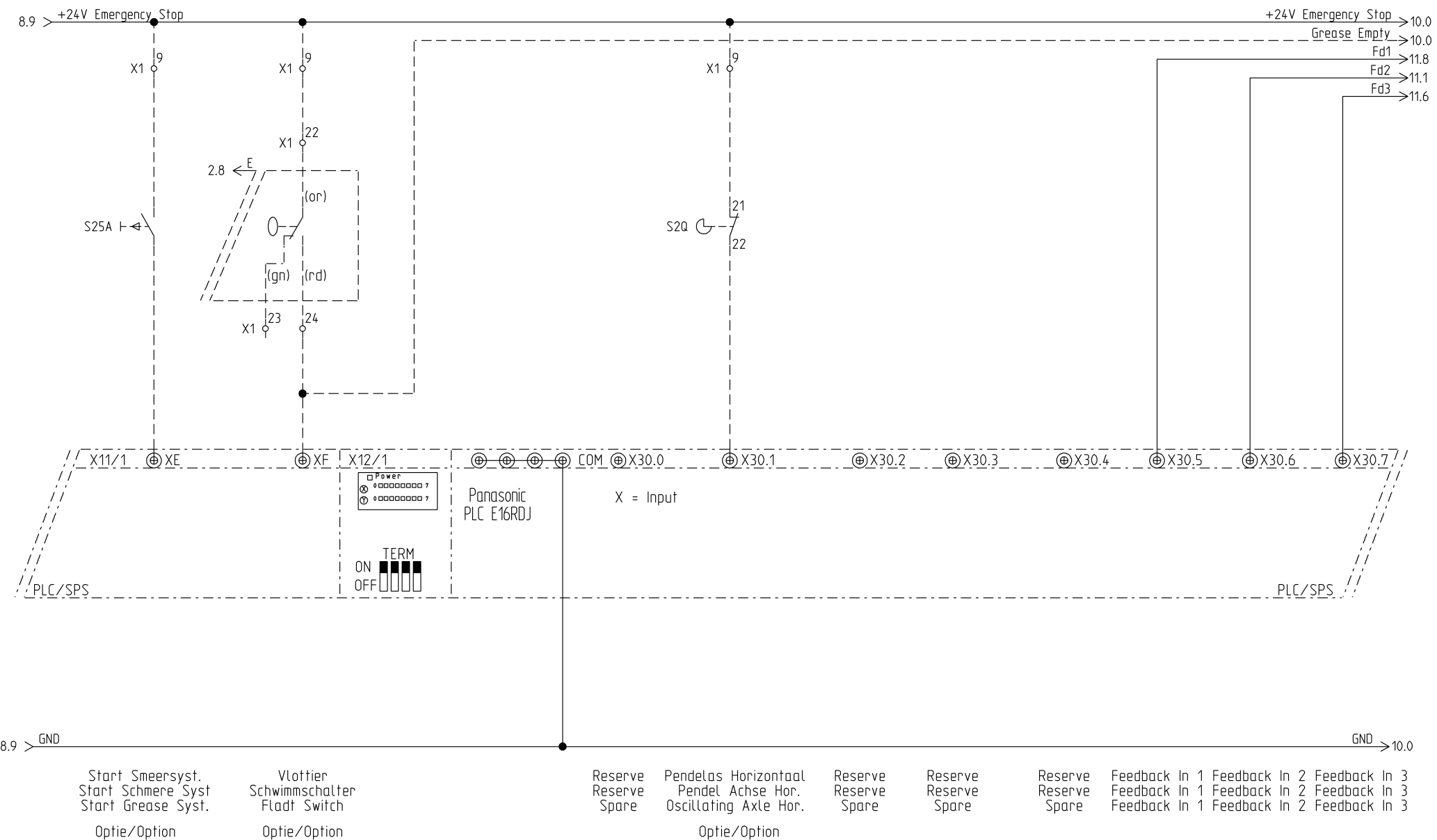
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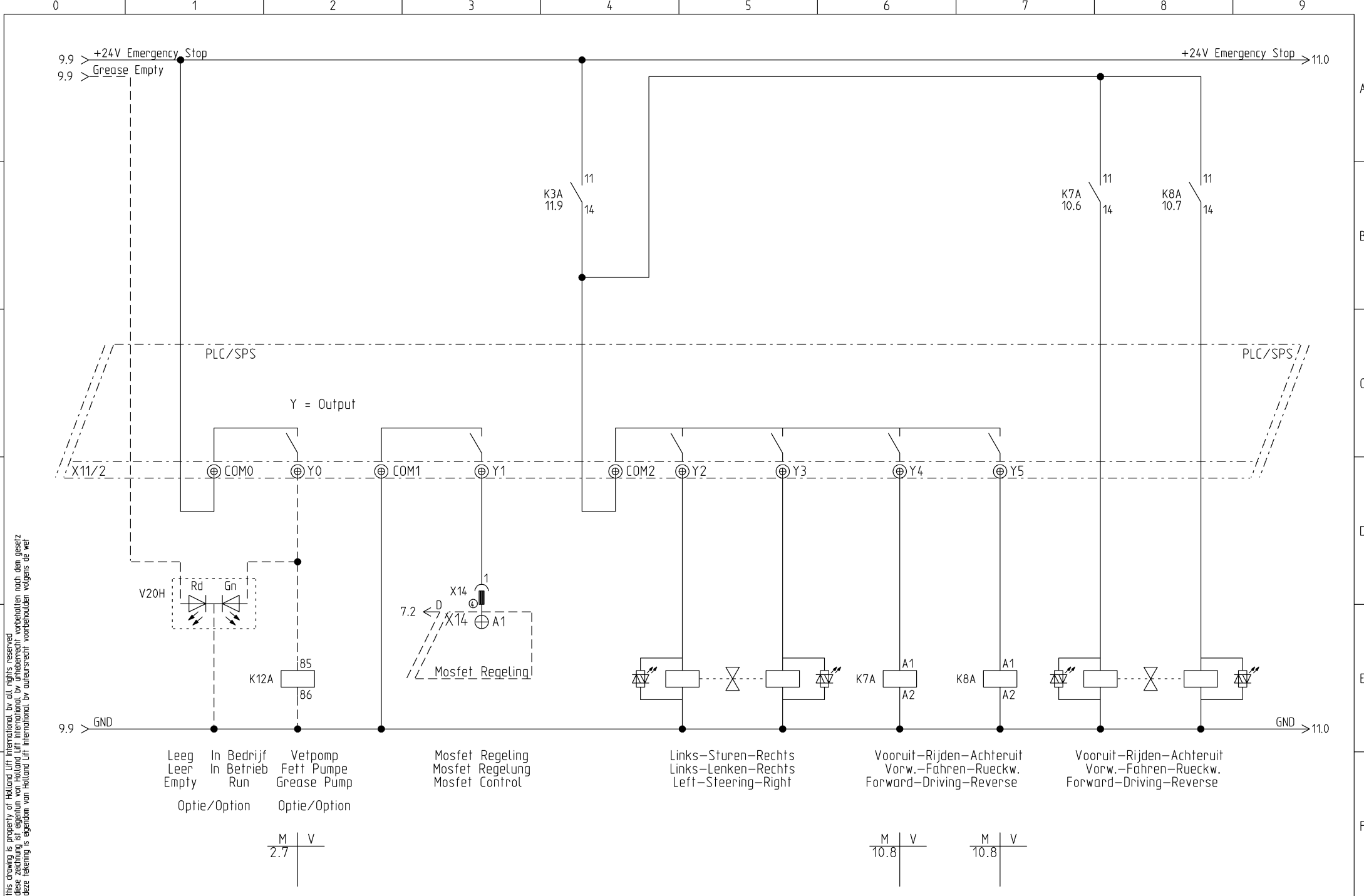
STROOMKRINGSHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

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STROOMKRINGSCHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

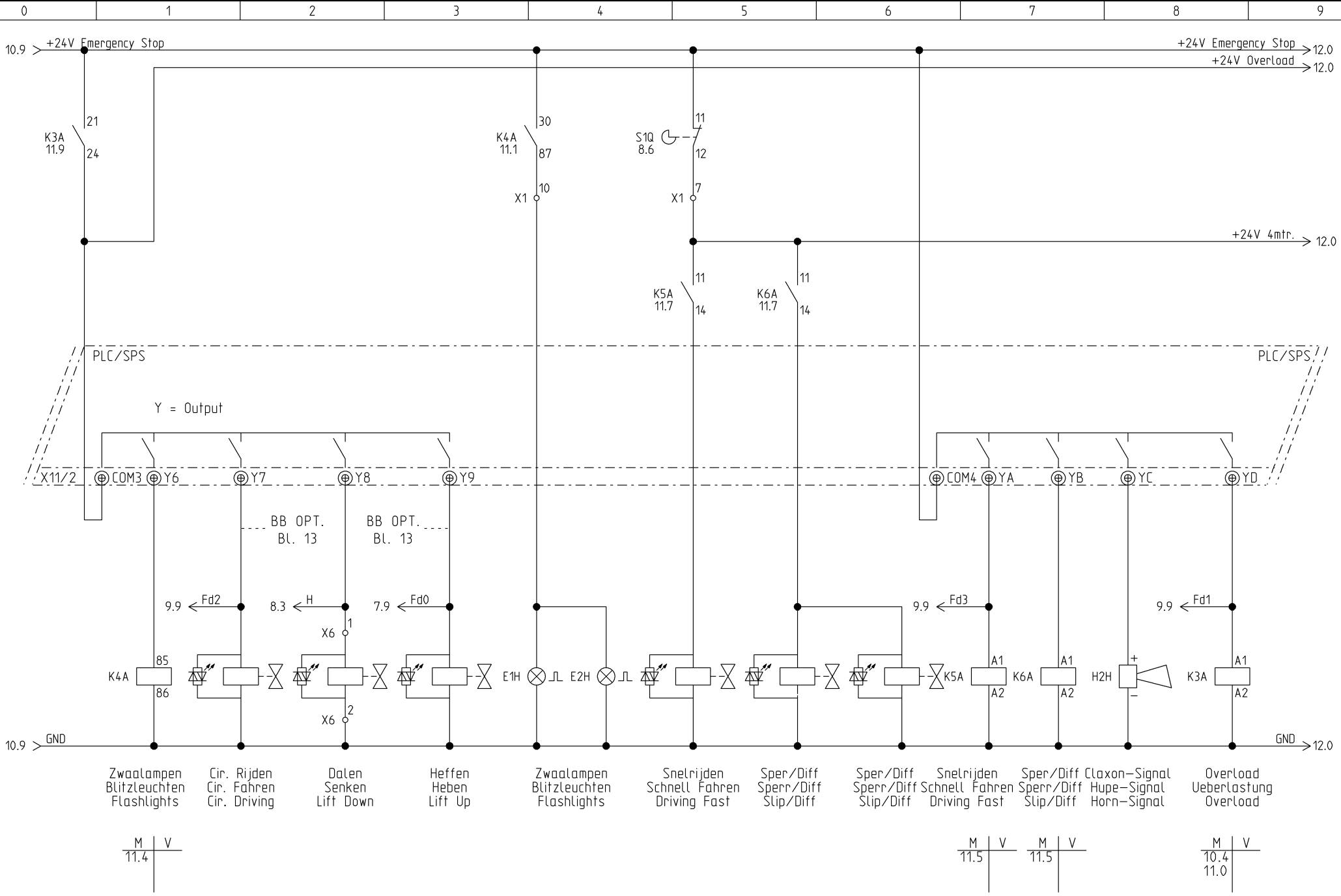
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 Datum: 06.11.2017

Zeichnungsnummer:  
 Anlage: =

Rev.: B  
 Ort: +

erstellt von: Rothenbusch  
 Blatt: 10

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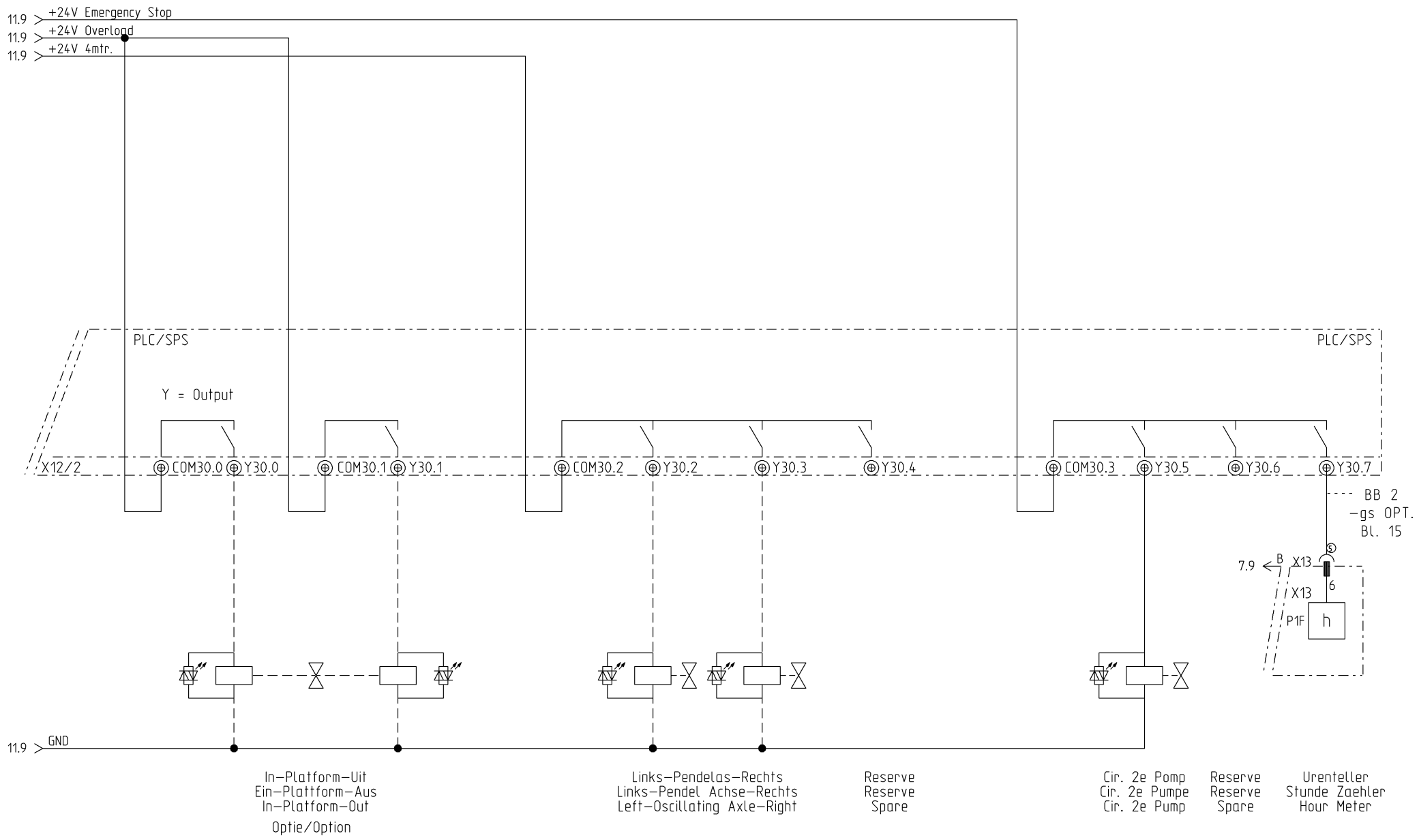


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STROOMKRINGSCHEMA  
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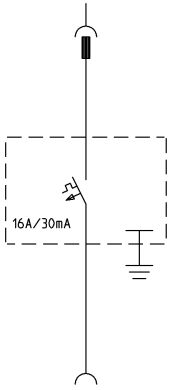


OPTIES  
 OPTIONEN  
 OPTIONS

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

<230VPLF>

230V-50Hz/115V-50Hz



AARDLEKAUTOMAAT  
 FI SCHALTER  
 EARTH DETECTOR

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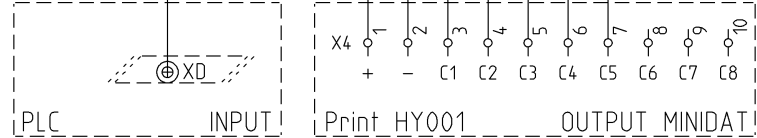
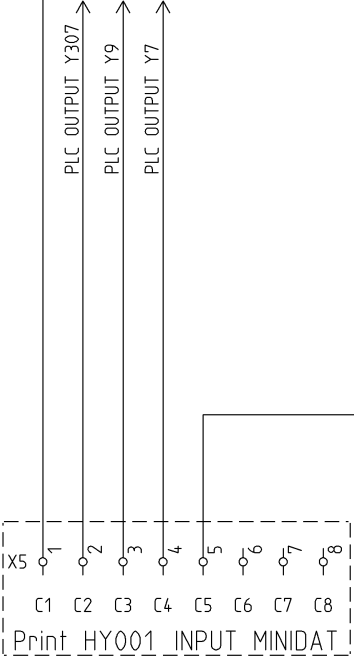
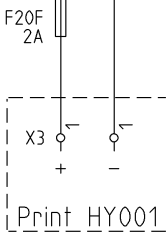
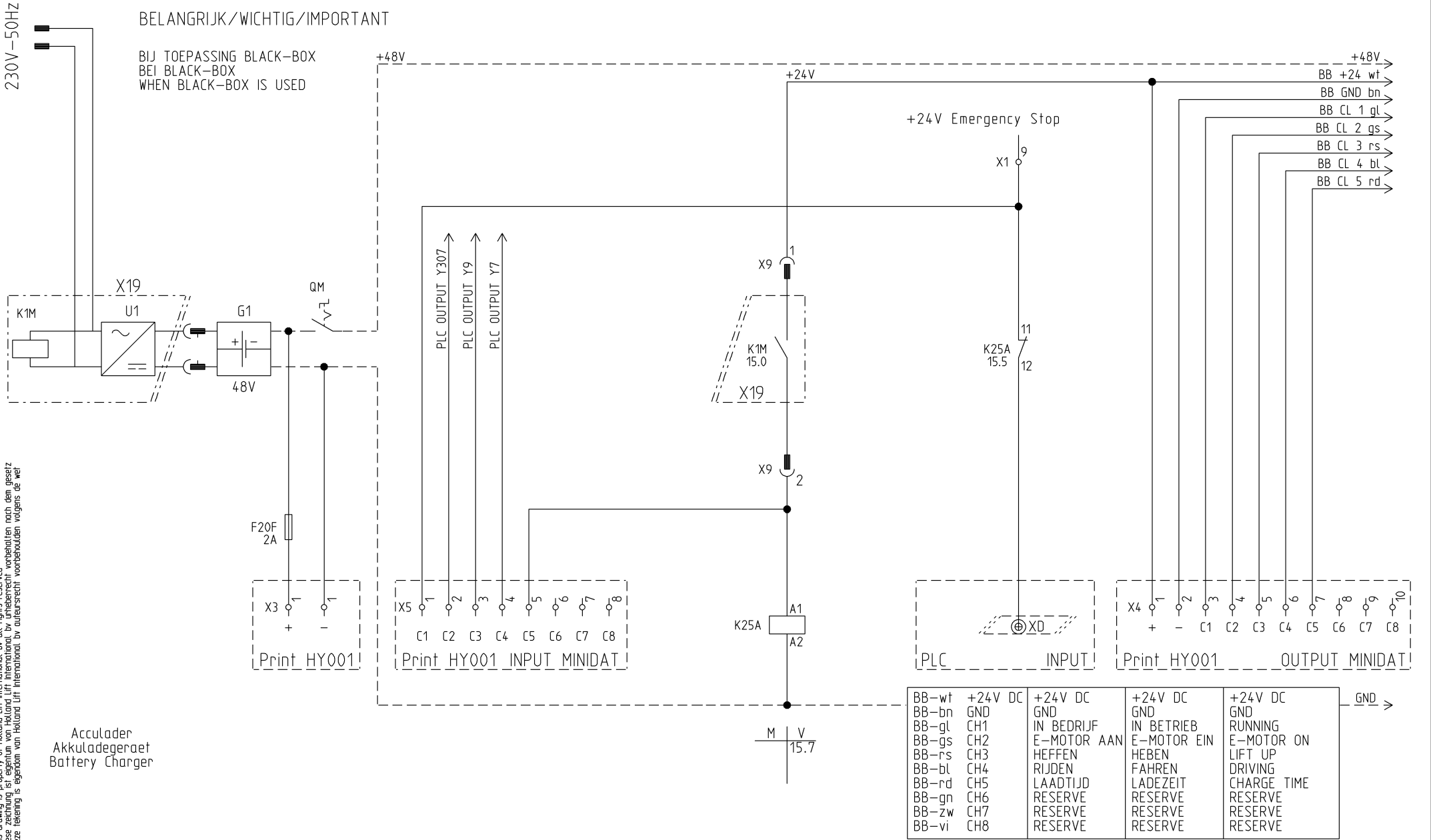
OPTIES  
 OPTIONEN  
 OPTIONS

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# OPTIES OPTIONEN OPTIONS

**BELANGRIJK / WICHTIG / IMPORTANT**

BIJ TOEPASSING BLACK-BOX  
BEI BLACK-BOX  
WHEN BLACK-BOX IS USED

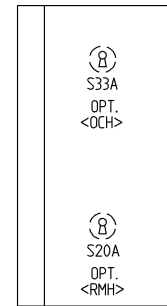
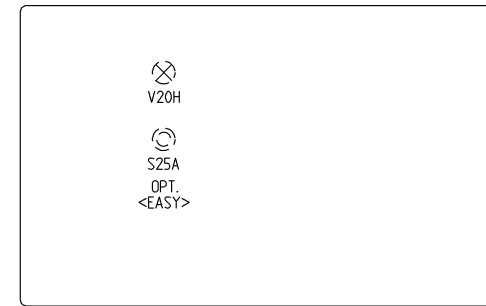
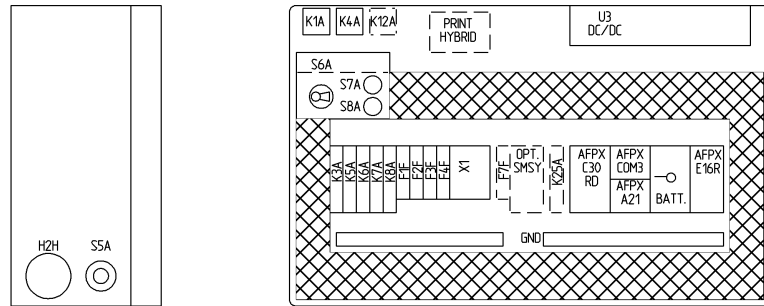


Acculader  
Akkuladegeraet  
Battery Charger

BB-wt	+24V DC	+24V DC	+24V DC	+24V DC	GND
BB-bn	GND	GND	GND	GND	GND
BB-gl	CH1	IN BEDRIJF	IN BETRIEB	RUNNING	
BB-gs	CH2	E-MOTOR AAN	E-MOTOR EIN	E-MOTOR ON	
BB-rs	CH3	HEFFEN	HEBEN	LIFT UP	
BB-bl	CH4	RIJDEN	FAHREN	DRIVING	
BB-rd	CH5	LAADTIJD	LADEZEIT	CHARGE TIME	
BB-gn	CH6	RESERVE	RESERVE	RESERVE	
BB-zw	CH7	RESERVE	RESERVE	RESERVE	
BB-vi	CH8	RESERVE	RESERVE	RESERVE	

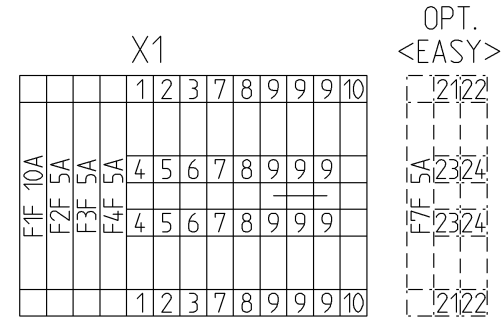
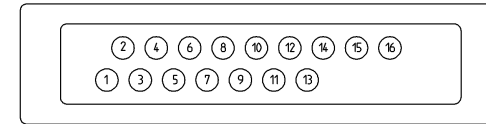
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# KLEMMENKAST KLEMMENKASTEN CONNECTION BOX

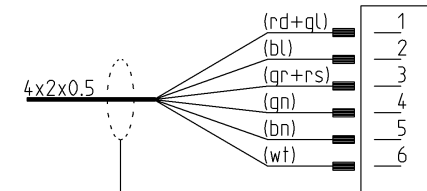


WARTEL KABELINF. GLAND NR.	KLEM KLEMMEN TERMINAL NR	FUNKTIE	FUNKTION	FUNCTION
1	DIV/VAR	Aansl. 6P Platform	Anschl. 6P Plattform	Conn. 6P Platform
2.1	DIV/VAR	4mtr. Afslag S1Q	4mtr. Ausschaltung S1Q	4mtr. Cut-out S1Q
2.2	DIV/VAR	Minidat Optie	Minidat Option	Minidat Option
3	DIV/VAR	Lasdoos X6	Verteilerdose 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	K7A:14-GND	Rijden Vooruit	Fahren Vorwaerts	Driving Forward
6.2	K8A:14-GND	Rijden Achteruit	Fahren Rueckwaerts	Driving Reverse
7.1	K6A:14-GND	Sper/Diff. Ventiel	Sperr/Diff. Ventil	Slip/Diff. Valve
7.2	K6A:14-GND	Sper/Diff. Ventiel	Sperr/Diff. Ventil	Slip/Diff. Valve
8.1	K5A:14-GND	Snelrijden	Schnell Fahren	Driving Fast
8.2	DIV/VAR	Mosfet Motorregeling	Mosfet Motorregelung	Mosfet Motor Control
9.1	DIV/VAR	Accumeter	Akkumeter	Batterymeter
9.2	φ9-XD-RES	Acculader	Akkuladegeraet	Battery Charger
10.1	F1F-GND	Accu +/- 24VDC	Akku +/- 24VDC	Battery +/- 24VDC
10.2	F4F-GND	Accu +/- 48VDC	Akku +/- 48VDC	Battery +/- 48VDC
11.1	φ9-GND-X4	Scheefstand	Neigung	Inclination
11.2	φ9-GND-X5	Scheefstand Opt.	Neigung Opt.	Inclination Opt.
12.1	φ10-GND	Zwaailamp	Blitzleuchte	Flashlight
12.2	φ10-GND	Zwaailamp	Blitzleuchte	Flashlight
13.1	φ9-GND	Ventilator Koeling	Fan Kuehlung	Cooling Fan
13.2	φ9-X30.4	Pendel. Hor. S2Q Opt.	Pendel A. Hor. S2Q Opt.	Os. A. Hor. S2Q Opt.
14	DIV/VAR	Smeersytem Opt.	Schmiere System Opt.	Grease System Opt.
15.1	Y30.2-GND	Pendelas Links Opt.	Pendel A. Links Opt.	Oscillating A. Left Opt.
15.2	Y30.3-GND	Pendelas Rechts Opt.	Pendel A. Rechts Opt.	Oscillating A. Right Opt.
16.1	Y30.5-GND	Cir. Ventiel 2e Pomp	Cir. Ventil 2e Pumpe	Cir. Valve 2e Pump
16.2	Y30.0-GND	Platform in Opt.	Plattform ein Opt.	Platform in Opt.
16.3	Y30.1-GND	Platform uit Opt.	Plattform aus Opt.	Platform out Opt.

1-16 M20



AANSLUITING OP PLATFORM  
ANSCHLUSS AUF PLATFORM  
CONNECTION ON PLATFORM



Afscherming  
niet aansluiten  
(aftapen)

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KASTEN/BEKABELING  
KASTEN/KABEL  
BOXES/CABLES

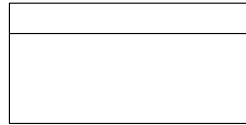
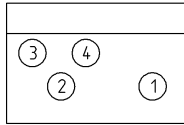
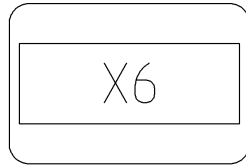
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Datum: 06.11.2017

Zeichnungsnummer:  
Anlage: =

Rev.: B  
Ort: +

erstellt von:  
Rothenbusch  
Blatt: 15

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



2-4 M12  
 1 PG16

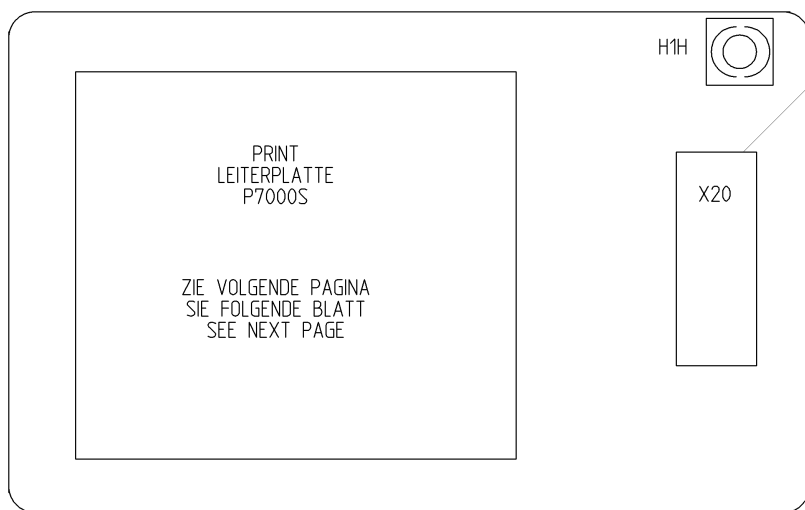
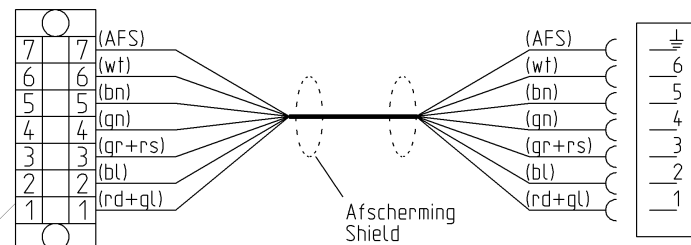
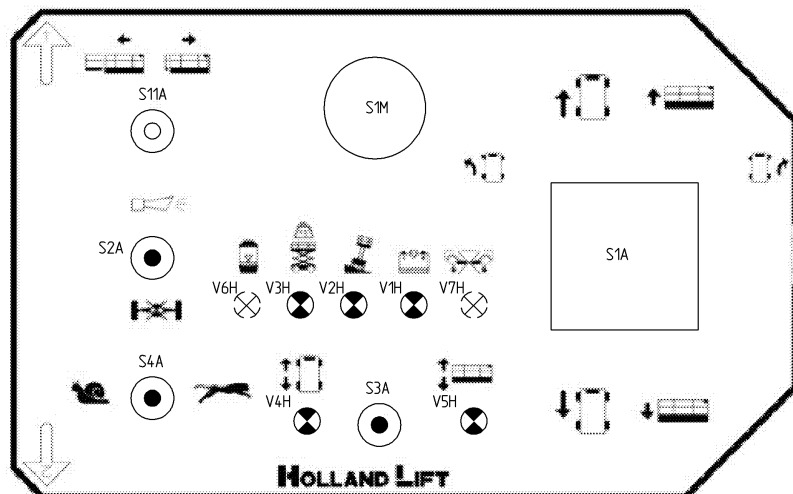
WARTEL KABELEINF. GLAND NR. (X6)	Omschrijving	Beschreibung	Description
1	Kabel Klemmenkast	Kabel Klemmenkasten	Cable Connection Box
2	Dalen	Senken	Lift Down
3	Druk Meting	Druck Messung	Pressure Measuring
4	Hoekmeting	Winkel Messung	Angle Measuring

KABEL KLEMMENKAST KABEL KLEMMENKASTEN CABLE CONNECITON BOX (18x1)	KLEM KLEMME TERMINAL NR. (KLEMMENKAST)	KLEM KLEMME TERMINAL NR. (X6)	Omschrijving	Beschreibung	Description
1	Y8	1	Dalen	Senken	Lift Down
2	GND	2	Dalen	Senken	Lift Down
3	φ 8	3	Druk Meting	Druck Messung	Pressure Measuring
4	V1 AMP	4	Druk Meting	Druck Messung	Pressure Measuring
5	φ 8	5	Hoekmeting	Winkel Messung	Angle Measuring
6	GND	6	Hoekmeting	Winkel Messung	Angle Measuring
7	V0 AMP	7	Hoekmeting	Winkel Messung	Angle Measuring
8	Res./Spare	8	Reserve	Reserve	Spare
9	Res./Spare	9	Reserve	Reserve	Spare
10	Res./Spare	10	Reserve	Reserve	Spare
11	Res./Spare	11	Reserve	Reserve	Spare
12	Res./Spare	12	Reserve	Reserve	Spare
13-18	Res./Spare		Reserve	Reserve	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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**HOLLAND LIFT**

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KASTEN/BEKABELING  
KASTEN/KABEL  
BOXES/CABLES

Projekt: EQ-21-001

Zeichnungsnummer:

Rev.: B

erstellt von: Rothenbusch

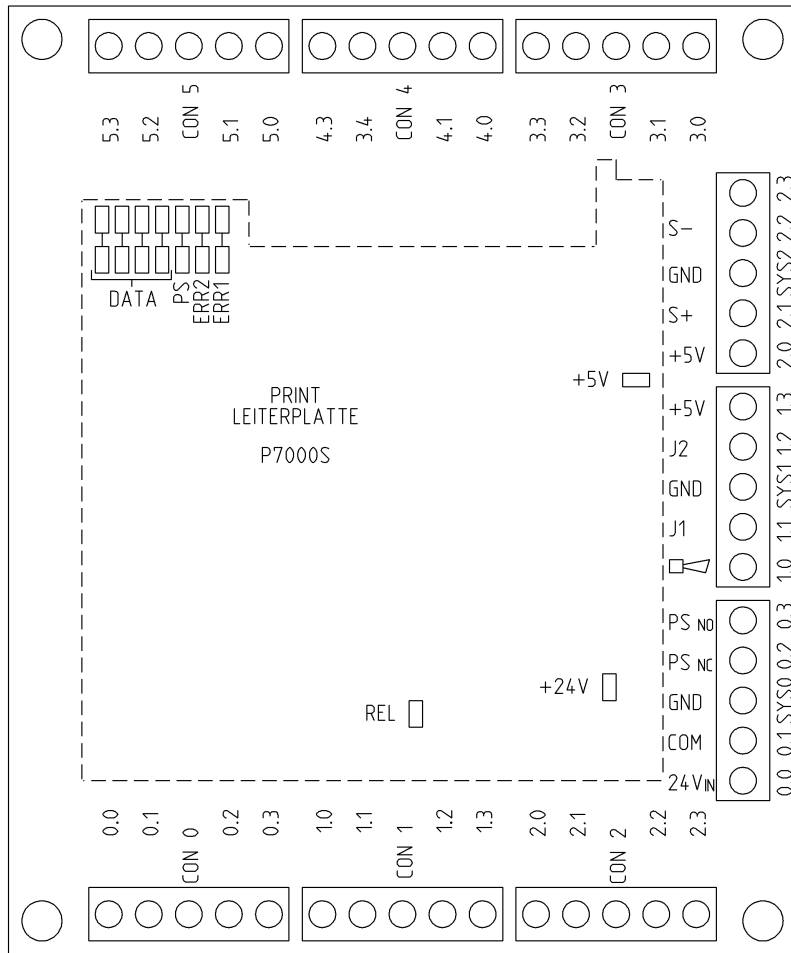
Datum: 06.11.2017

Anlage: =

Ort: +

Blatt: 17

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 (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 (S4A1)	Schnell Fahren (S3A1)	Driving Fast (S3A1)
2.1	Plaf. in (S11A3) Opt.	Plaft. ein (S11A3) Opt.	Plat. in (S11A3) Opt.
CON 2			
2.2	Plaf. uit (S11A1) Opt.	Plaft. aus (S11A1) Opt.	Plat. out (S11A1) Opt.
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	Pendel. Hor. (V7H) Opt.	Pendel. A. Hor. (V7H) Opt.	Os. Ax. Hor. (V7H) Opt
3.3	Reserve	Reserve	Spare

4.0	Accu gn (V1H)	Akku gn (V1H)	Battery gn (V1H)
4.1	Scheefstand gn (V2H)	Neigung gn (V2H)	Inclination gn (V2H)
CON 4			
4.2	Lift Mode (V5H)	Lift Mode (V5H)	Lift Mode (V5H)
4.3	Drive Mode (V4H)	Drive Mode (V4H)	Drive Mode (V4H)

5.0	Vetpomp (V6H) Opt.	Fett Pumpe (V6H) Opt.	Grease Pump (V6H) Opt
5.1	Overload (V3H)	Ueberlastung (V3H)	Overload (V3H)
CON 5			
5.2	Scheefstand rd (V2H)	Neigung rt (V2H)	Inclination rd (V2H)
5.3	Accu rd (V1H)	Akku rt (V1H)	Battery rd (V1H)

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