

A

AANSLUITKLEM KLEMMENKAST  
⊘ ANSCHLUSSKLEMME KLEMMKASTEN  
TERMINAL CONNECTION BOX

AANSLUITKLEM TRANSISTOR  
⊕ ANSCHLUSSKLEMME TRANSISTOR  
TERMINAL TRANSISTOR

AANSLUITKLEM PLC-SLAVE  
⊘ ANSCHLUSSKLEMME SPS-SLAVE  
TERMINAL PLC-SLAVE

AANSLUITKLEM BEDIENINGSKAST  
⊘ ANSCHLUSSKLEMME STEUERPUIT  
TERMINAL CONTROL BOX

AANSLUITKLEM PLC  
⊕ ANSCHLUSSKLEMME SPS  
TERMINAL PLC

A

B

TYPE	OMSCHRIJVING UMSCHREIBUNG DESCRIPTION	PLC PROG: SPS PROG: PLC PROG:
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B

HL160E20	Modular Electro-HD Platform-Steering rear-400V	????
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HL190E20	Modular Electro-HD Platform-Steering rear-400V	????
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C

C

D

D

REV.	DATUM DATUM DATE	OPMERKING BEMERKUNG REMARK
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E

F

F

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Holland Lift International B.V.  
Anodeweg 1  
NL-1627 LJ Hoorn The Netherlands  
T/F +31 (0)229-285555 / 285550  
E service@hollandlift.com  
W www.hollandlift.com

INDEX BLAD  
INDEX BLATT  
INDEX SHEET

Projekt:  
EQ-21-002

Zeichnungsnummer:

Rev.:

erstellt von:  
Rothenbusch

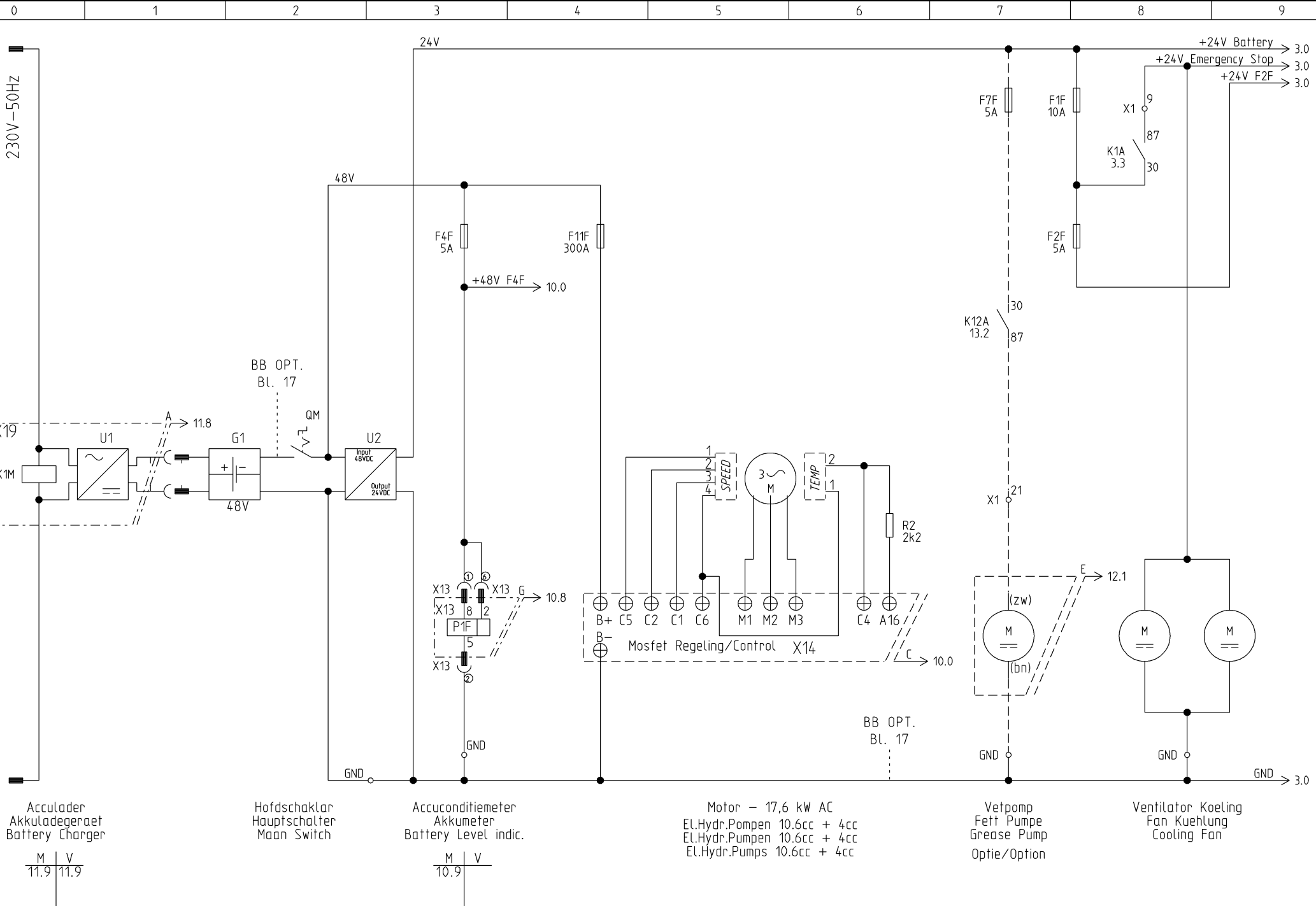
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09.11.2016

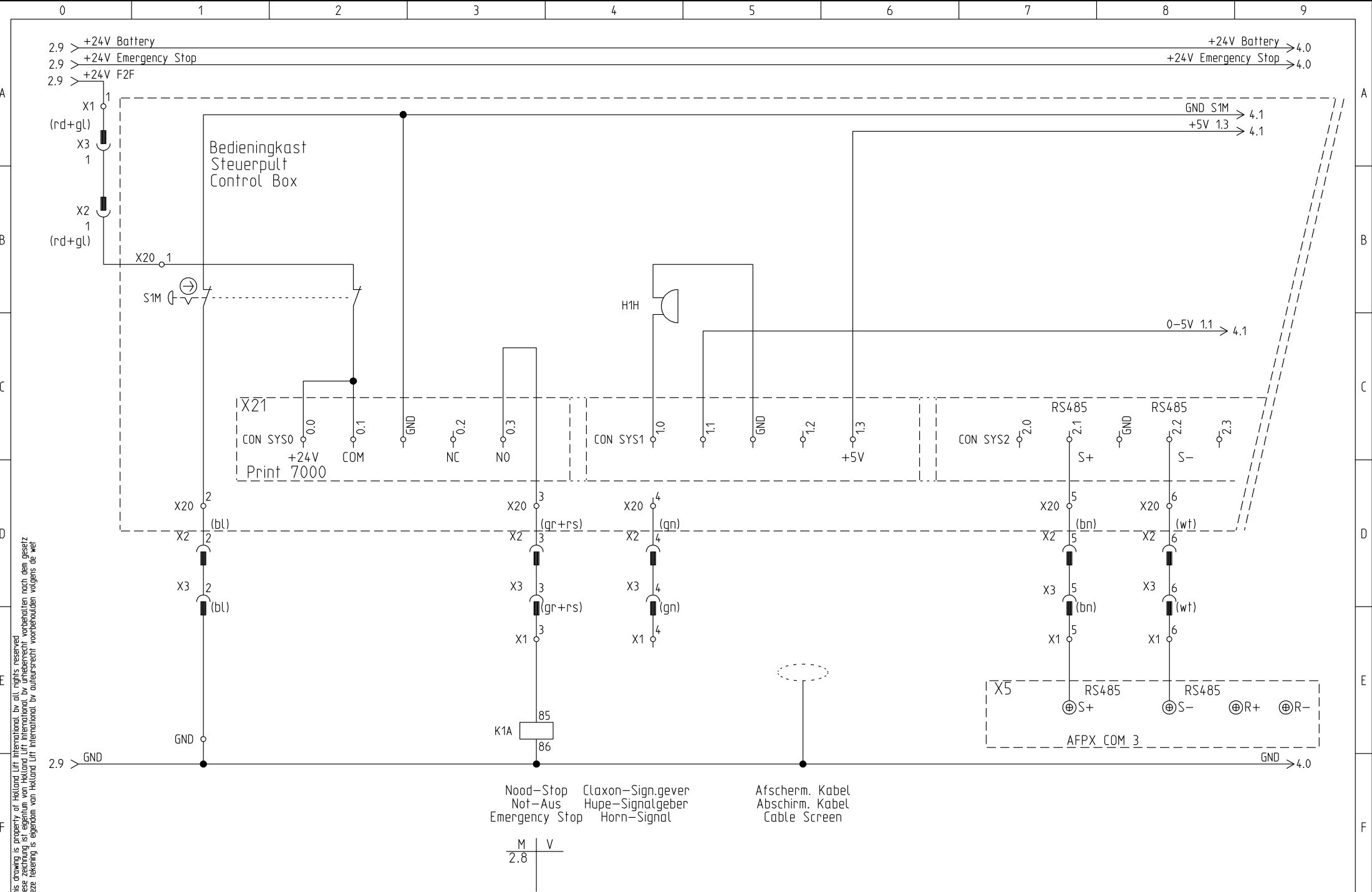
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Ort:  
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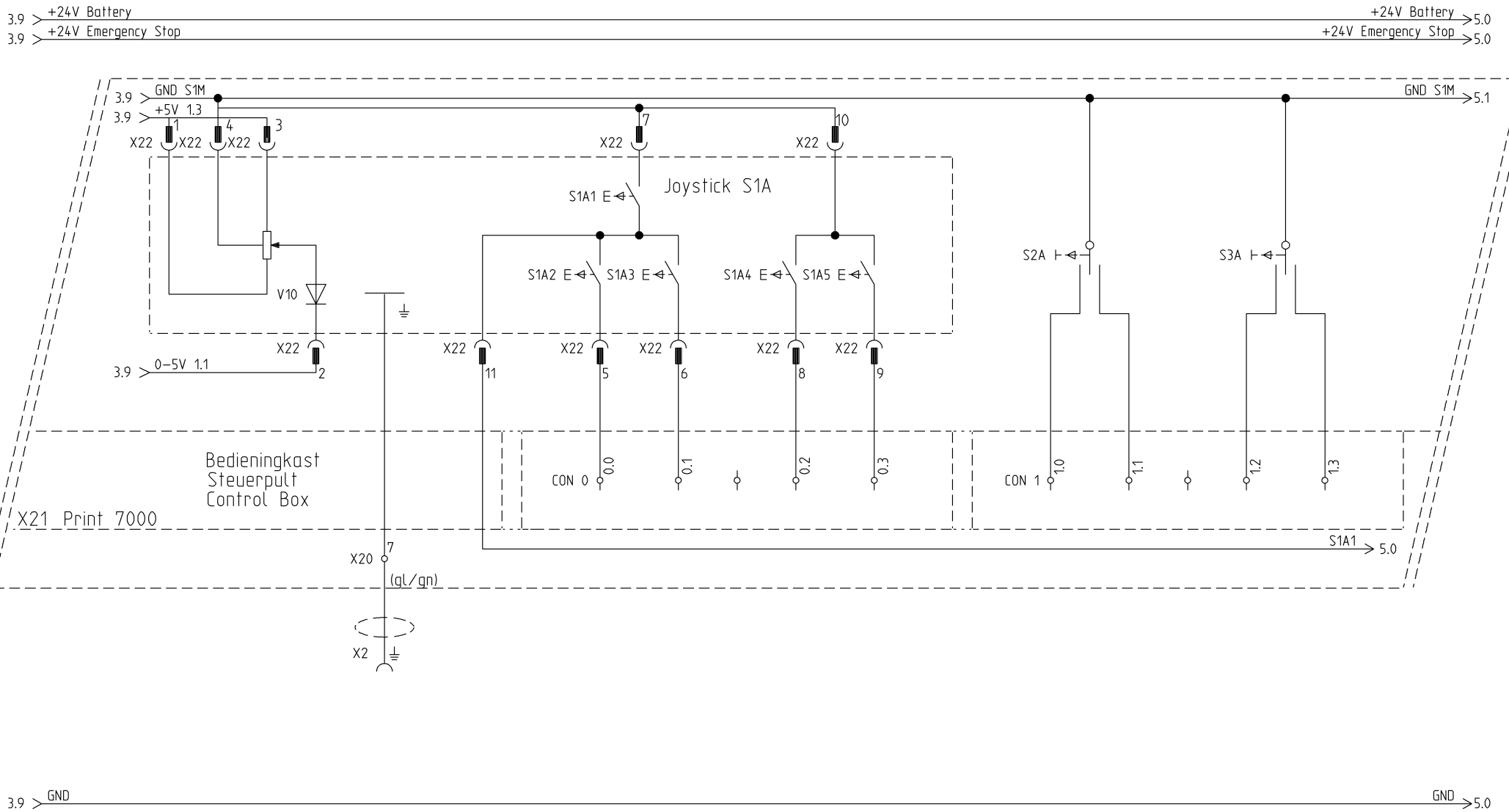
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Bedieningkast  
Steuerpult  
Control Box

X21 Print 7000

- S1A1 Dodemansknop
- S1A1 Totmansknopf
- S1A1 Dead Man,s Button
- Op-Joysick-Neer
- Auf-Joystick-Nieder
- On-Joystick-Down
- Links - Rechts
- Links - Rechts
- Left - Right
- Claxon-Sign.gever
- Hupe-Signalgeber
- Horn-Signal
- Sper/Diff
- Sperr/Diff
- Slip/Diff
- Heffen/Dalen
- Heben/Senken
- Lift Up/Lift Down
- Rijden/Sturen
- Fahren/Lenken
- Driving/Steering
- Sturen Voor
- Lenken Vorn
- Steering Front

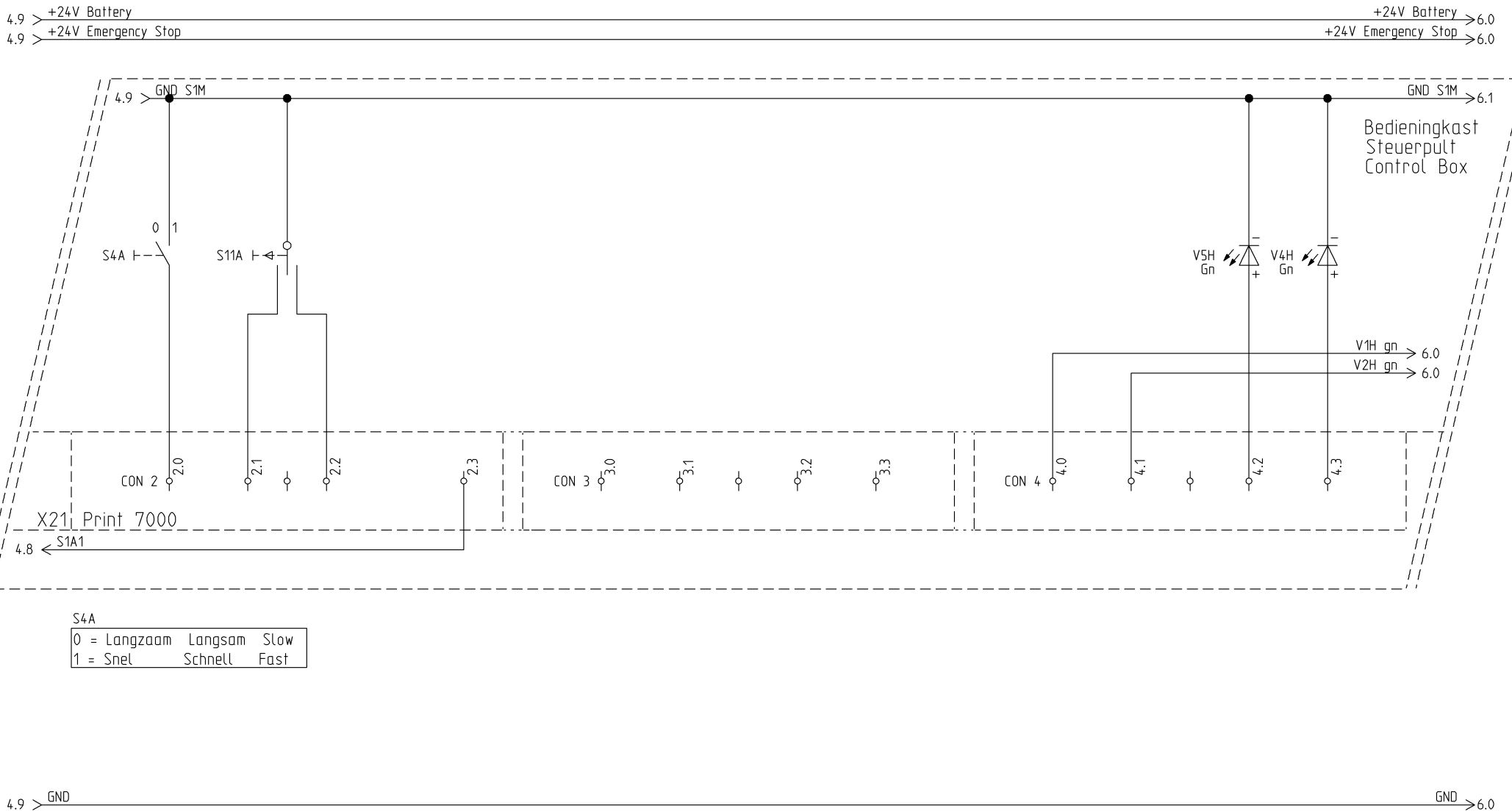
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 NL-1627 LJ Hoorn The Netherlands  
 T/F +31 (0)229-285555 / 285550  
 E service@hollandlift.com  
 W www.hollandlift.com

STROOMKRINGSHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

Projekt: EQ-21-002	Zeichnungsnummer:	Rev.:	erstellt von: Rothenbusch
Datum: 09.11.2016	Anlage: =	Ort: +	Blatt: 4



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

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

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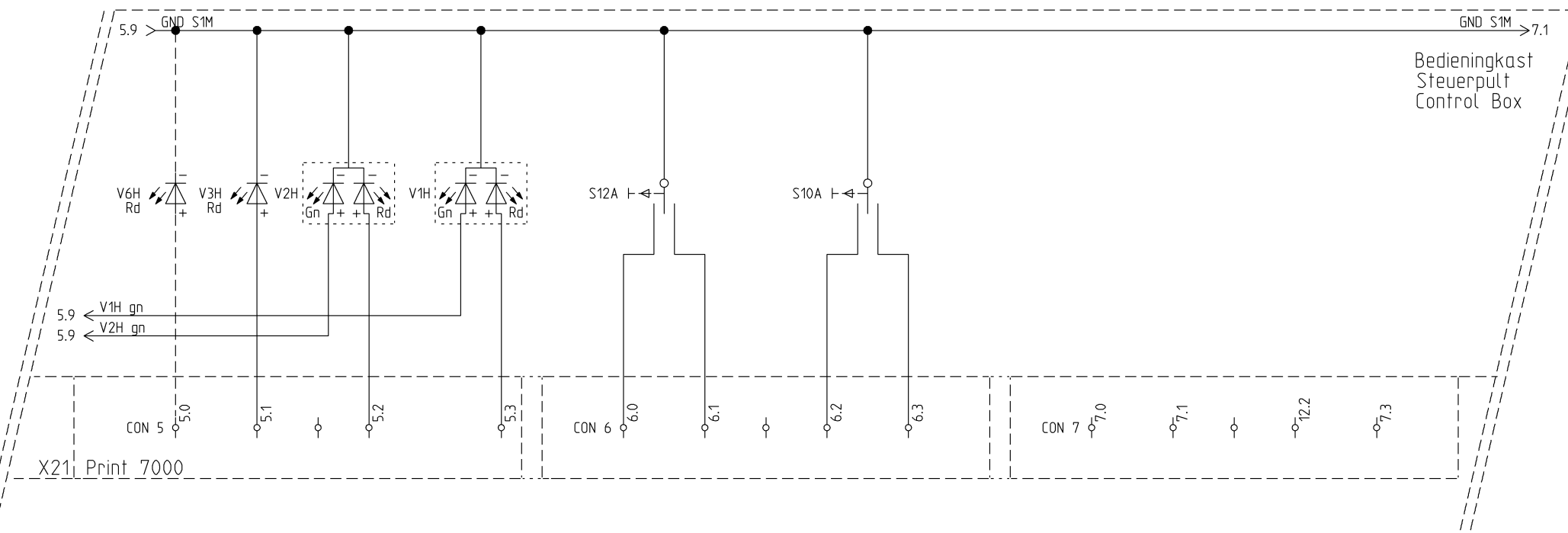
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STROOMKRINGSCHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

Projekt: EQ-21-002	Zeichnungsnummer:	Rev.:	erstellt von: Rothenbusch
Datum: 09.11.2016	Anlage: =	Ort: +	Blatt: 5

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

+24V Battery > 9.0  
 +24V Emergency Stop > 7.0



Bedieningkast  
 Steuerpult  
 Control Box

X21: Print 7000

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

5.9 > GND GND > 7.0

Vetpomp Overload Scheefstand rd Accu rd Start - 400V M - Stop  
 Fett Pumpe Ueberlastung Neigung rt Akku rt Start - 400V M - Stop  
 Grease Pump Overload Grade/Slope rd Batttery rd Start - 400V E - Stop

Optie/Option

Links - Rechts  
 Links - Rechts  
 Left - Right

Reserve Reserve Reserve Reserve  
 Reserve Reserve Reserve Reserve  
 Spare Spare Spare Spare

Sturen Achter  
 Lenken Hinten  
 Steering Rear

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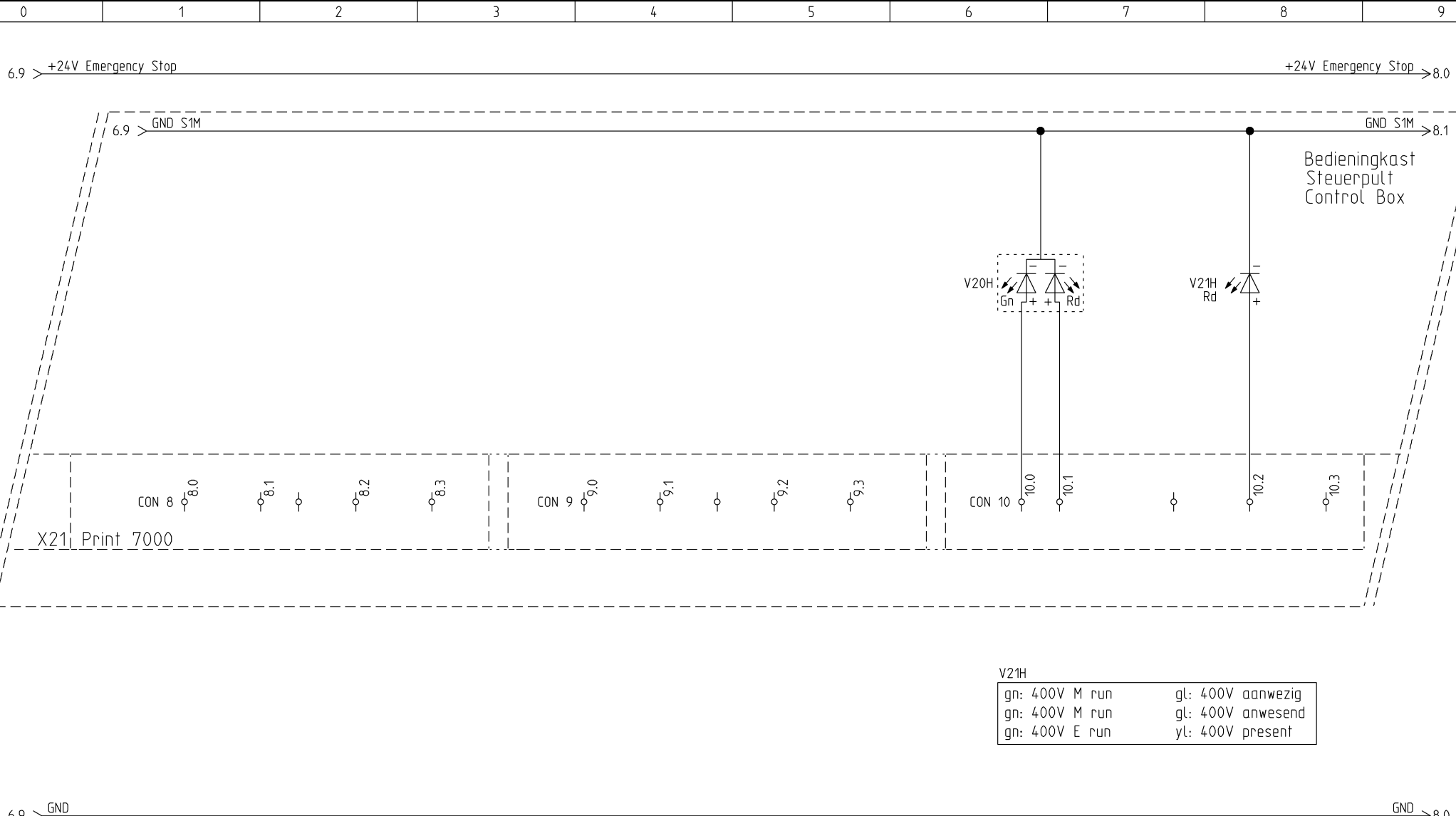
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 NL-1627 LJ Hoorn The Netherlands  
 T/F +31 (0)229-285555 / 285550  
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 W www.hollandlift.com

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 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

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V21H	
gn: 400V M run	gl: 400V aanwezig
gn: 400V M run	gl: 400V anwesend
gn: 400V E run	yl: 400V present

Reserve Spare	Reserve Spare	Reserve Spare	Reserve Spare	Reserve Spare	Reserve Spare	Reserve Spare	Reserve Spare	400V M Run	400V M Run	400V E Run	400V aanwezig	400V anwesend	400V present	Storing 400V Motor	Stoerung 400V Motor	Failure 400V Engine
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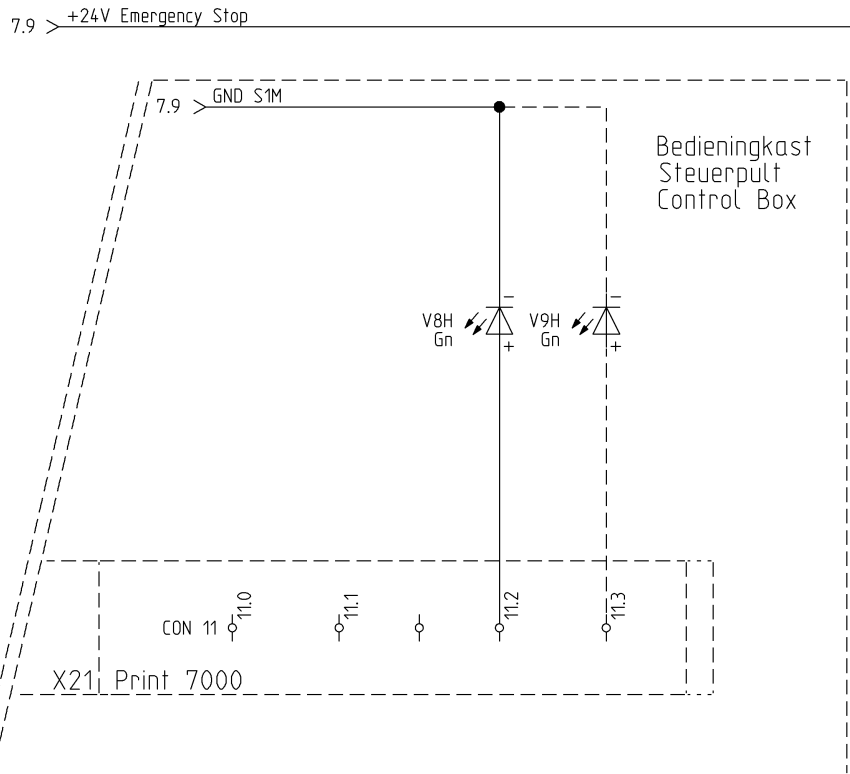


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STROOMKRINGSCHEMA  
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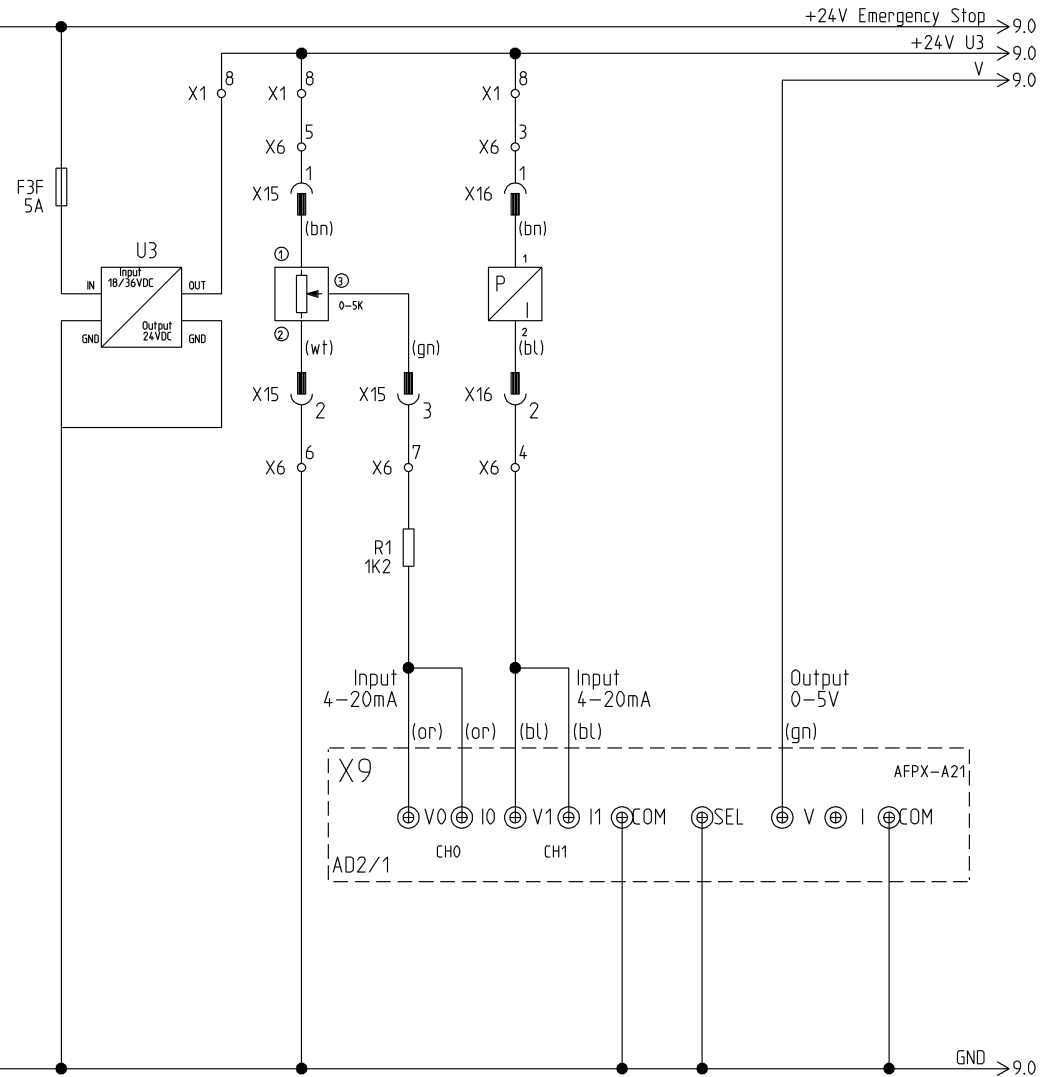
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Datum:	09.11.2016	Anlage:	=	Ort:	+	Blatt:	7

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7.9 > GND

Achter – As Recht – Voor  
 Hinten – Achse Gerade – Vorn  
 Rear – Axle Straght – Front  
 Optie/Option



+24V Emergency Stop > 9.0  
 +24V U3 > 9.0  
 V > 9.0

Hoekmeting Winkel Messung Angle Measuring  
 Druk Meting Druck Messung Pressure Measuring  
 Mosfet Regeling Mosfet Regelung Mosfet Control



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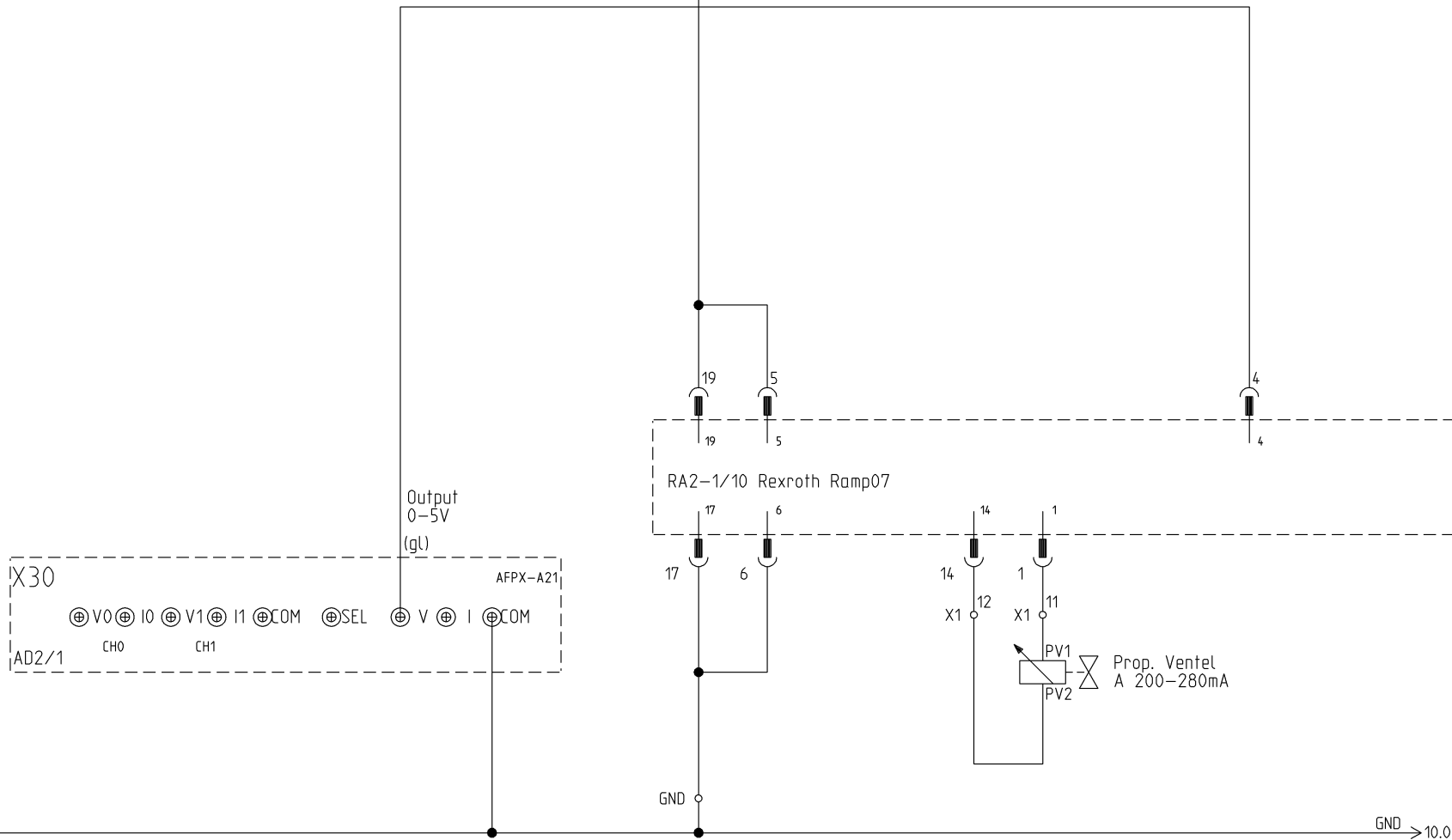
STROOMKRINGSCHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

Projekt: EQ-21-002	Zeichnungsnummer:	Rev.:	erstellt von: Rothenbusch
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6.9 > +24V Battery  
 8.9 > +24V Emergency Stop  
 8.9 > +24V U3  
 8.9 > V

+24V Battery > 10.0  
 +24V Emergency Stop > 10.0  
 +24V U3 > 10.0  
 V > 10.0



Prop. Vent 400V Motor  
 Prop. Vent 400V Motor  
 Prop. Valve 400V Engine

Prop. Vent 400V Motor  
 Prop. Vent 400V Motor  
 Prop. Valve 400V Engine

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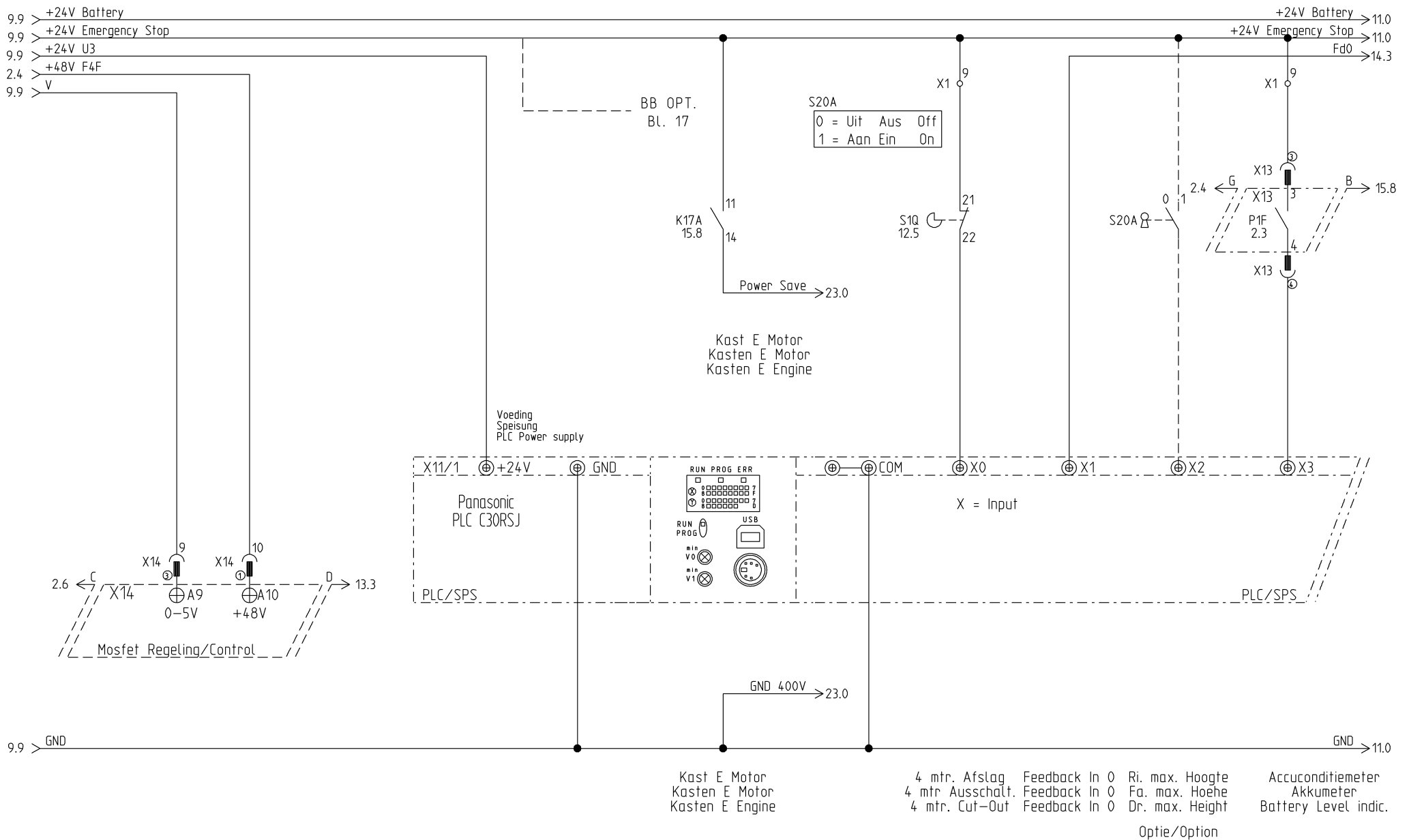


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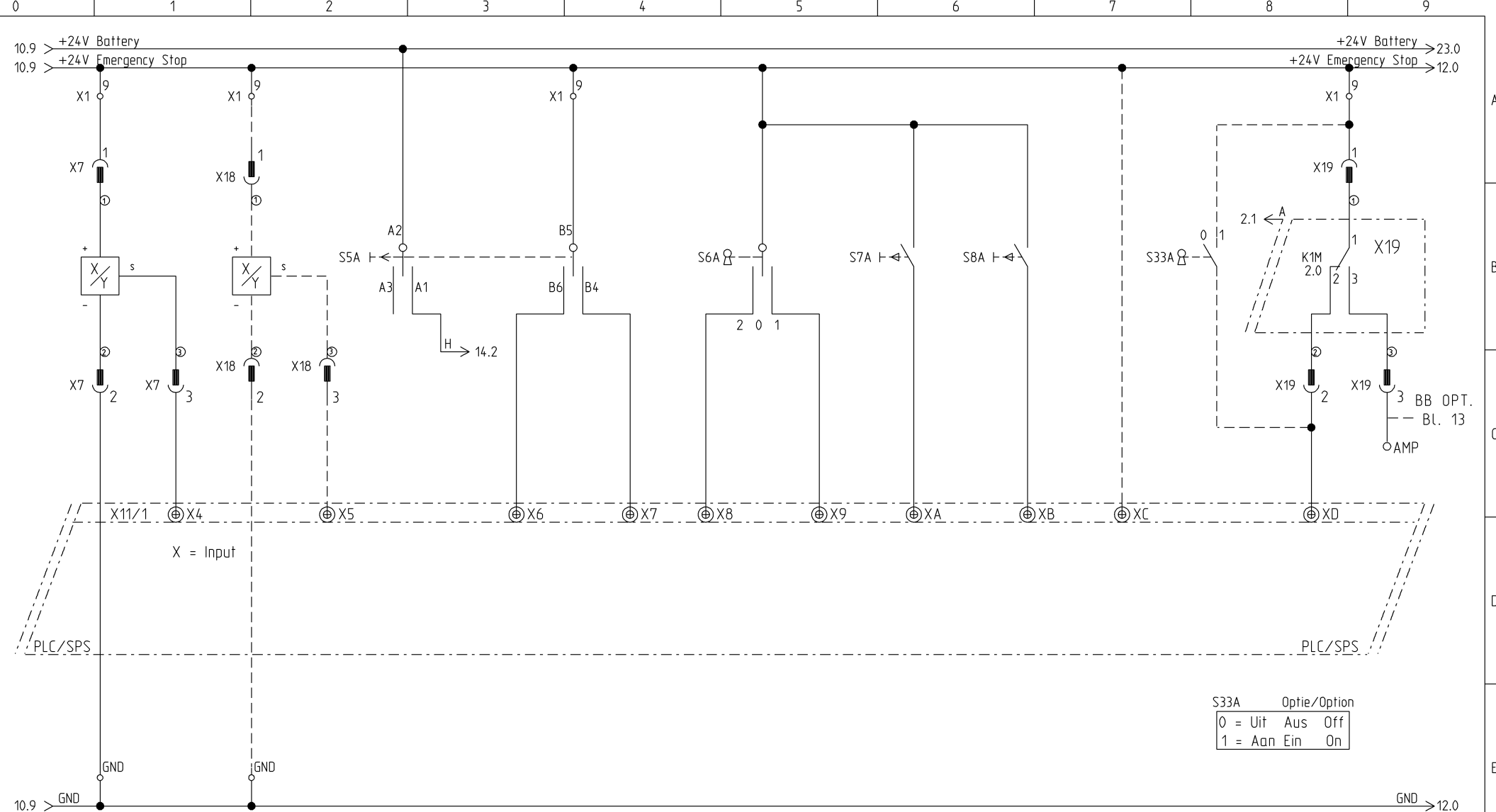
STROOMKRINGSHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

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X = Input

PLC/SPS

PLC/SPS

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

- 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. Uif  
Progr. Aus  
Progr. Off
- Aan  
An  
On
- Store  
Store  
Store
- Save  
Save  
Save
- Overbr. Smeersyst.  
Ueberbr. Schmere Syst  
Jumper Grease Syst.  
Optie/Option
- Acculader  
Akkuladegeraet  
Battery Charger

Overlast-Ueberlastung-Overload

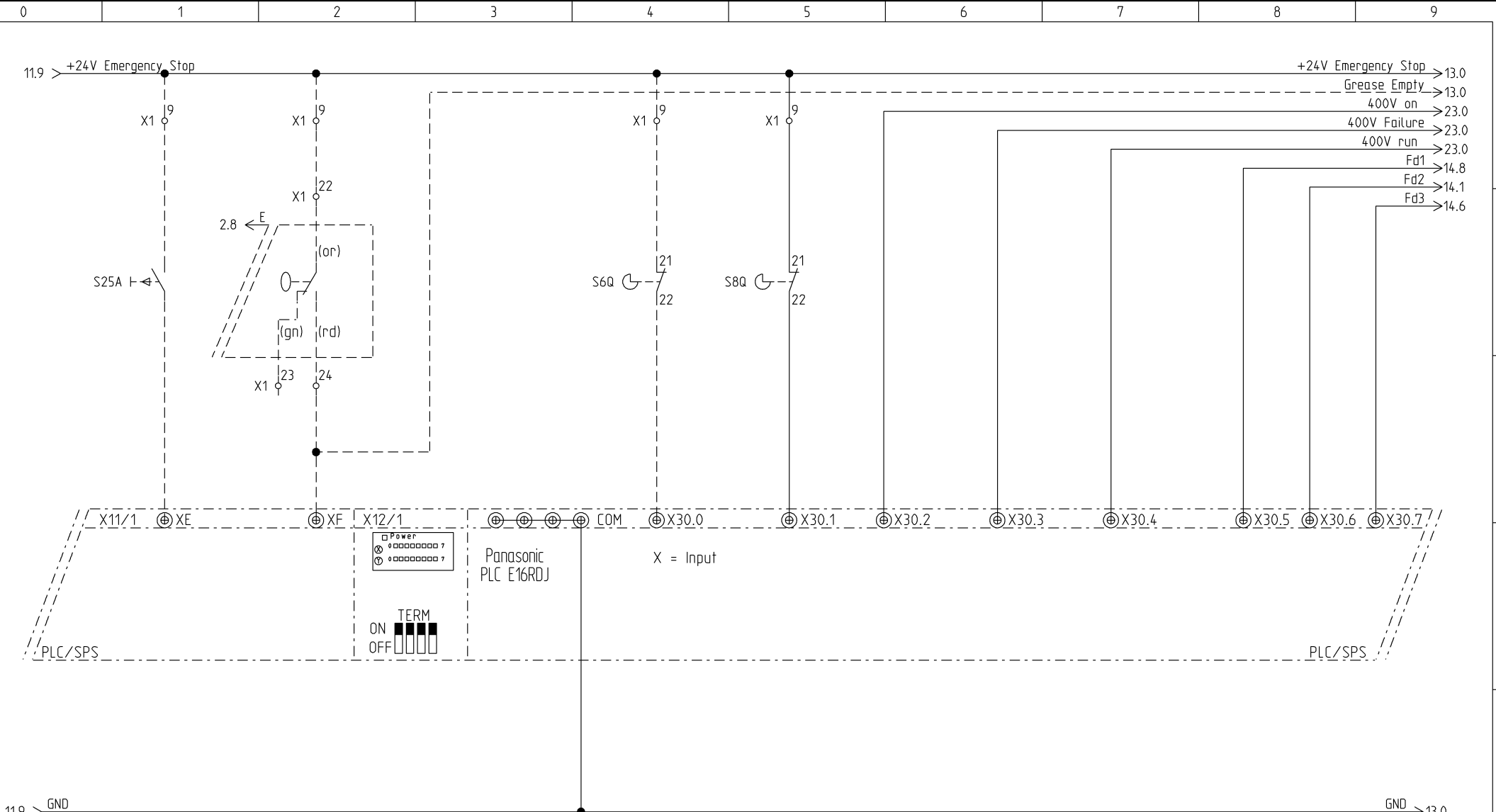


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STROOMKRINGSHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

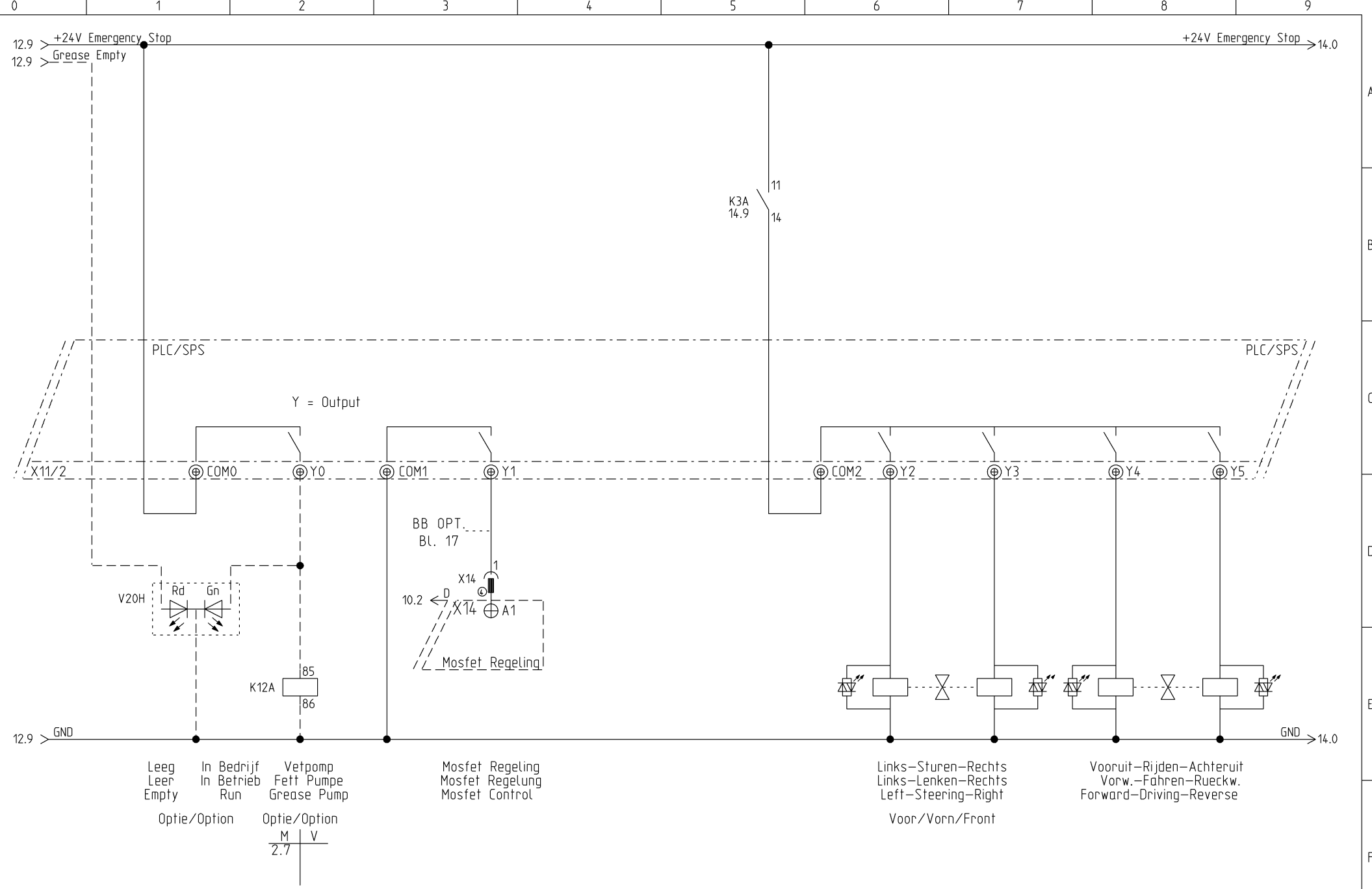
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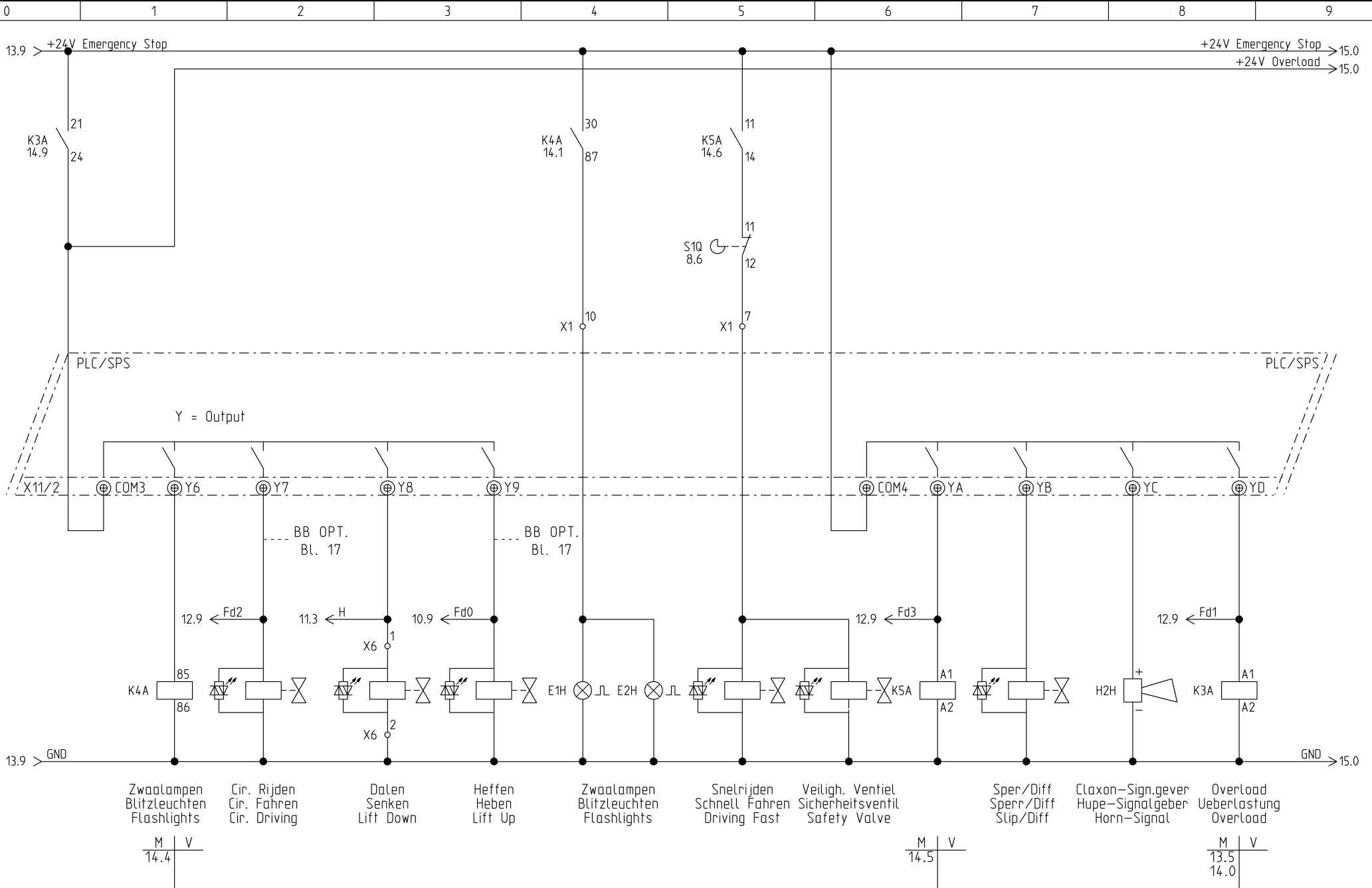


Start Smeersyst. Start Schmere Syst. Start Grease Syst. Optie/Option	Vlottier Schwimmschalter Fladt Switch Optie/Option	Vooras – Horizontaal – Achteras Vorn – Achse Hor. – Hinten Front – Axle Hor. – Rear Optie/Option	400V aanwezig 400V anwesend 400V present	Storing 400V Motor Stoerung 400V Motor Failure 400V Engine	400V M Run Feed. In 1 Feed. In 2 Feed. In 3	400V M Run Feed. In 1 Feed. In 2 Feed. In 3	400V E Run Feed. In 1 Feed. In 2 Feed. In 3
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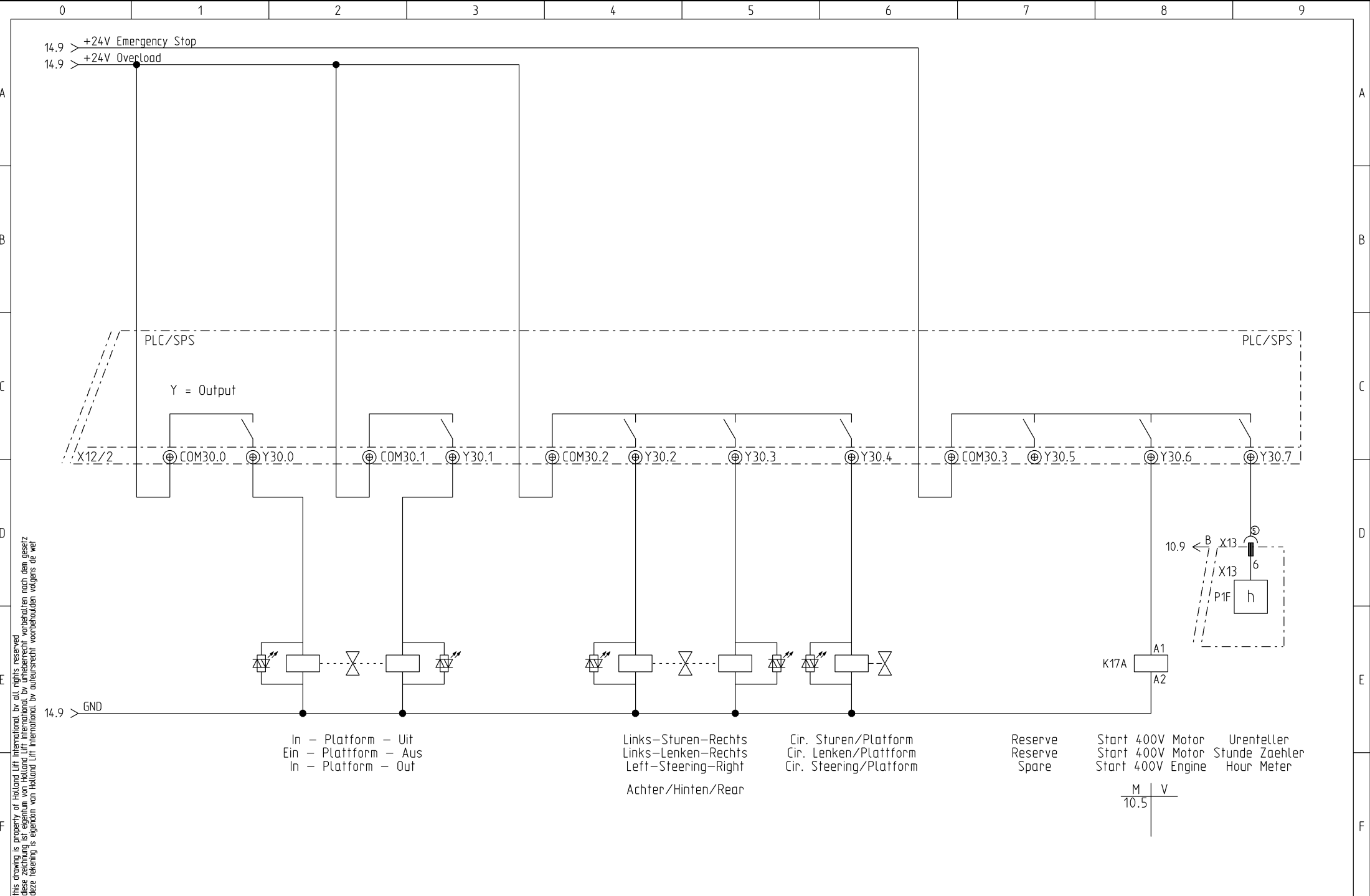
STROOMKRINGSCHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

Projekt: EQ-21-002  
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Zeichnungsnummer:  
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STROOMKRINGSCHEMA  
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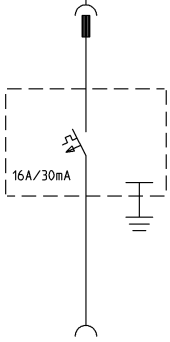
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OPTIES  
 OPTIONEN  
 OPTIONS

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

<230VPLF>

230V-50Hz/115V-50Hz



AARDLEKUTOMAAT  
 FI SCHALTER  
 EARTH DETECTOR

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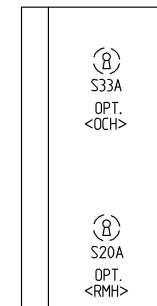
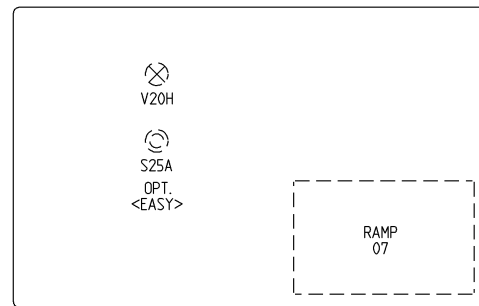
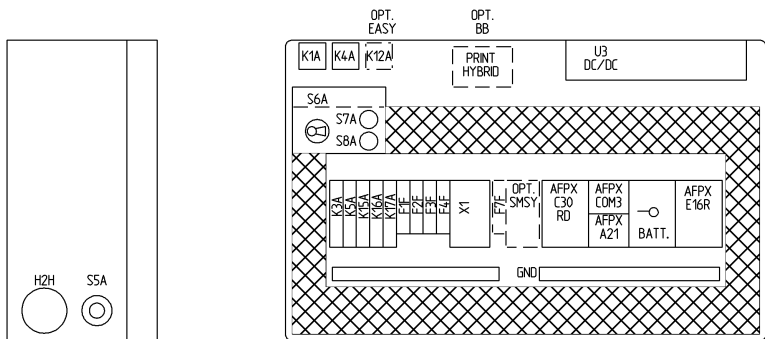
OPTIES  
 OPTIONEN  
 OPTIONS

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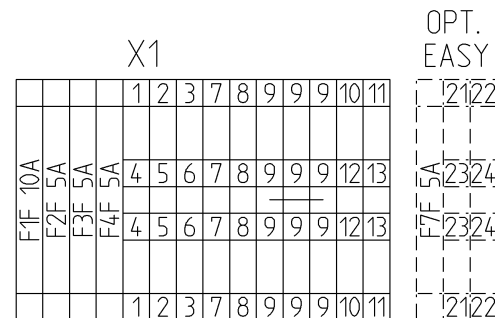
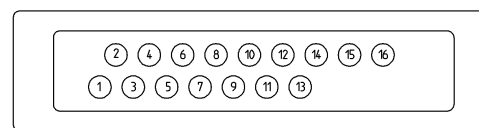


# KLEMMENKAST KLEMMENKASTEN CONNECTION BOX

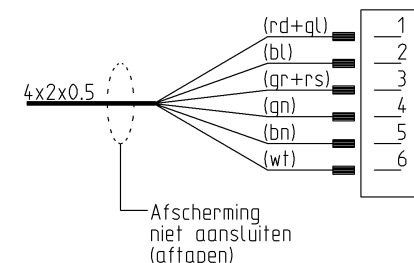


WARTEL KABELINF. GLAND	KLEM KLEMME TERMINAL	FUNKTIE	FUNKTION	FUNCTION
1	DIV/VAR	Aansl. 6P Platform	Anschl. 6P Plattform	Conn. 6P Platform
2.1	DIV/VAR	4mtr. Afslag S1Q	4mtr. Ausschaltung S1Q	4mtr. Cut-out S1Q
2.2	DIV/VAR	Black-Box Option	Black-Box Option	Black-Box Option
3	DIV/VAR	Lasdoos X6	Verteilerdose X6	Connection Box X6
4.1	Y2-GND	Sturen Links Voor	Lenken Links Vorn	Steering Left Front
4.2	Y3-GND	Sturen Rechts Voor	Lenken Rechts Vorn	Steering Right Front
5.1	Y9-GND	Heffen	Heben	Lift Up
5.2	Y7-GND	Cir. Ventiel Rijden	Cir. Ventil Fahren	Cir. Valve Driving
6.1	Y4-GND	Rijden Vooruit	Fahren Vorwaerts	Driving Forward
6.2	Y5-GND	Rijden Achteruit	Fahren Rueckwaerts	Driving Reverse
7.1	φ7-GND	Veiligheids Ventiel	Sicherheitsventil	Safety Valve
7.2	φ7-GND	Snelrijden	Schnell Fahren	Driving Fast
7.3	YB-GND	Sper/Diff. Ventiel	Sperr/Diff. Ventil	Slip/Diff. Valve
8.1	Y30.2-GND	Sturen Links Achter	Lenken Links Hinten	Steering Left Rear
8.2	Y30.3-GND	Sturen Rechts Achter	Lenken Rechts Hinten	Steering Right Rear
8.3	DIV/VAR	Mosfet Motorreq	Mosfet Motorreq	Mosfet Motor Con
9.1	DIV/VAR	Accumeter	Akkumeter	Batterymeter
9.2	DIV/VAR	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 1	Neigung 1	Inclination 1
11.2	φ9-GND-X5	Scheefstand 2 Opt.	Neigung 2 Opt.	Inclination 2 Opt.
12.1	φ10-GND	Zwaailamp	Blitzleuchte	Flashlight
12.2	φ10-GND	Zwaailamp	Blitzleuchte	Flashlight
12.3	φ9-X30.1	Eind. Achter. Recht	Endschalter hinten Achse	Limit Switch Axle rear
13.1	φ9-GND	Ventilator Koeling	Fan Kuehlung	Cooling Fan
13.2	DIV/VAR	Smeersytem Opt.	Schmiere System Opt.	Grease System Opt.
14.1	Y30.0-GND	Platform in	Plattform ein	Platform in
14.2	Y30.1-GND	Platform uit	Plattform aus	Platform out
15.1	φ12-φ11	Prop. Ventiel 400V	Prop. Ventil 400V	Prop. Valve 400V
15.2	Y30.4-GND	Cir. Sturen/Platform	Cir. Lenken/Plattform	Cir. Steering/Platform
16	DIV/VAR	Kast EL. Motor	Kasten El. Motor	Box El. Engine

1-16 M20



AANSLUITING OP PLATFORM  
ANSCHLUSS AUF PLATTFORM  
CONNECTION ON PLATFORM



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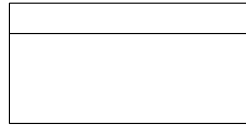
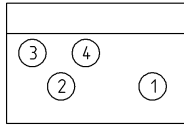
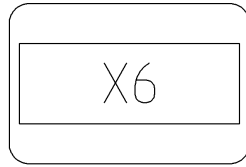


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 NL-1627 LJ Hoorn The Netherlands  
 T/F +31 (0)229-285555 / 285550  
 E service@hollandlift.com  
 W www.hollandlift.com

KASTEN/BEKABELING  
 KASTEN/KABEL  
 BOXES/CABLES

Projekt: EQ-21-002	Zeichnungsnummer:	Rev.:	erstellt von: Rothenbusch
Datum: 09.11.2016	Anlage: =	Ort: +	Blatt: 18

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



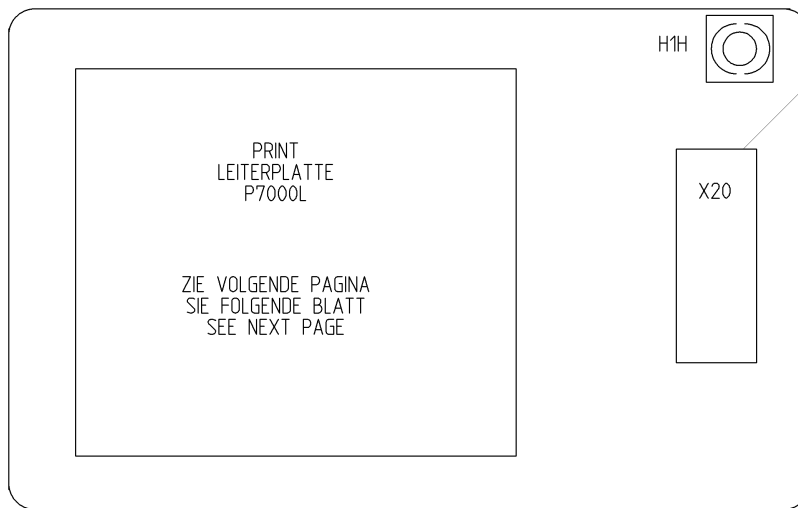
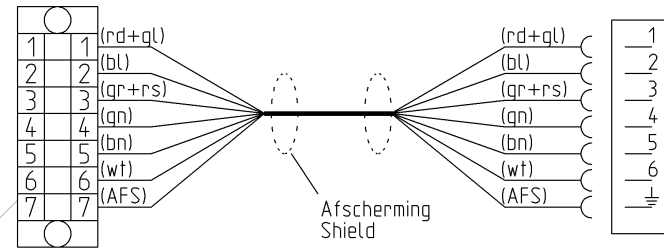
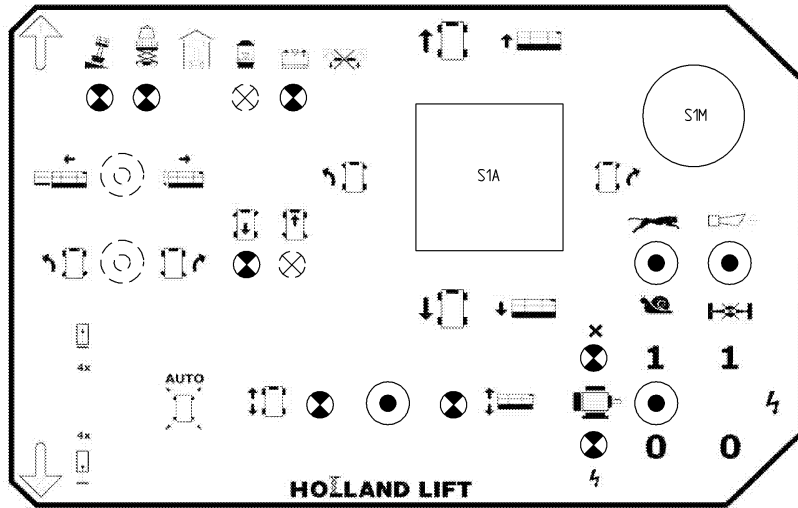
2-4 M12  
 1 M20

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 KLEMMEN TERMINAL NR. (KLEMMENKAST)	KLEM KLEMMEN 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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KASTEN/BEKABELING  
 KASTEN/KABEL  
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 Rothenbusch

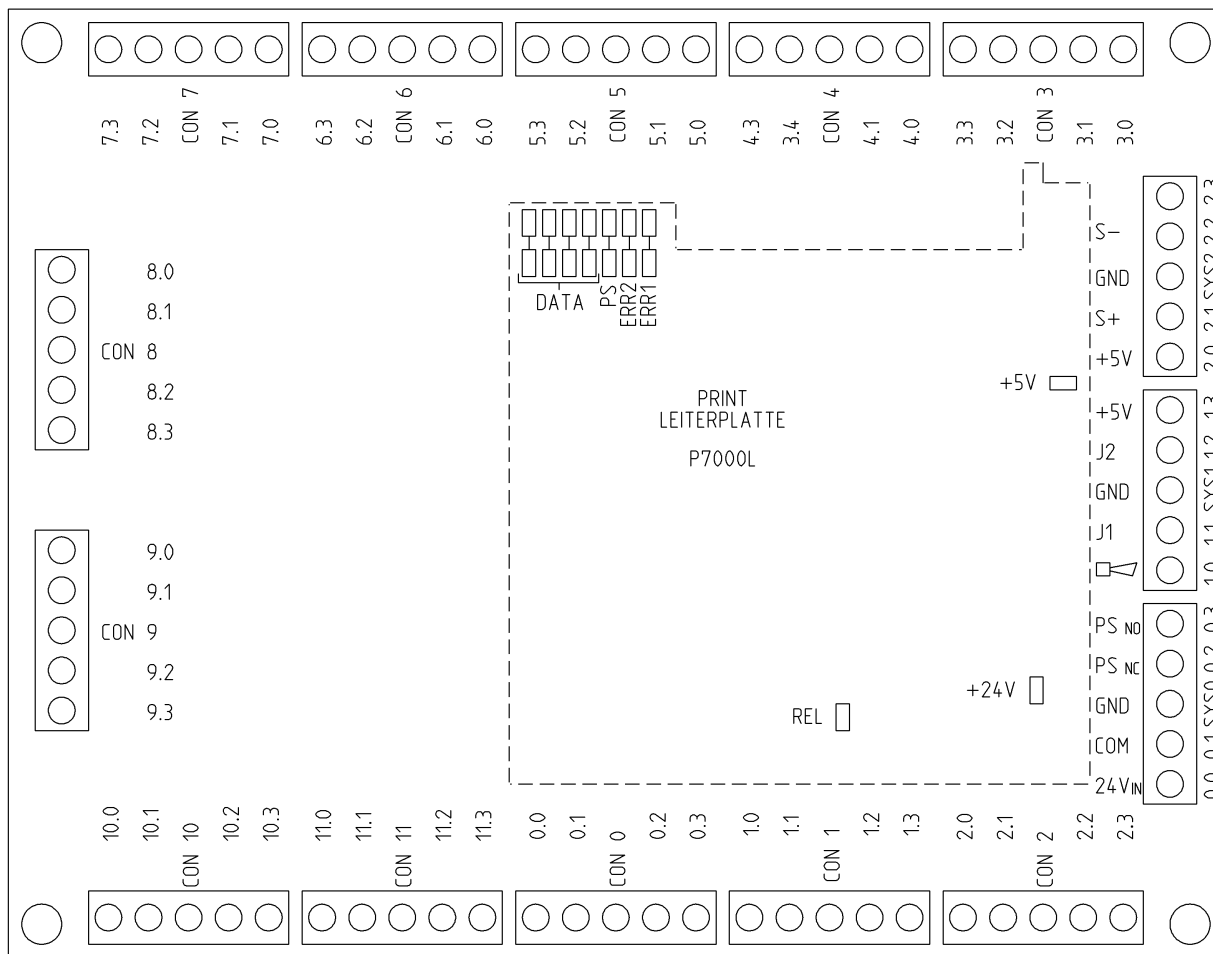
Datum:  
 09.11.2016

Anlage:

Ort:

Blatt:  
 20

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

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PRINTPLAAT  
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Ort:

Blatt:  
21

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0.0	Joystick Op (S1A2)	Fahren Joy. Auf (S1A2)	Joystick On (S1A2)
0.1	Joystick Neer (S1A3)	Fahren Joy. Nied. (S1A3)	Joystick 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 (S2A1)	Hupe (S2A1)	Horn (S2A1)
1.1	Sper/Diff. (S2A3)	Sperr/Diff. (S2A3)	Slip/Diff. (S2A3)
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	Platform in (S11A3)	Plattform ein (S11A3)	Platform in (S11A3)
CON 2			
2.2	Platform uit (S11A1)	Plattform aus (S11A1)	Platform out (S11A1)
2.3	Dodemansknop (S1A1)	Totmanskноп (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	Accu gn (V1H)	Akku gn (V1H)	Battery gn (V1H)
4.1	Scheefstand gn (V2H)	Neigung gn (V2H)	Inclination (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 Opt. (V7H)	Fett Pumpe Opt. (V7H)	Grease Pu. Opt. (V7H)
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)

6.0	Start 400V M. (S12A3)	Start 400V M. (S12A3)	Start 400V E. (S12A3)
6.1	Stop 400V M. (S12A1)	Halt 400V M. (S12A1)	Stop 400V E. (S12A1)
CON 6			
6.2	Sturen LA (S10A1)	Lenken LH (S10A1)	Steering LR (S10A1)
6.3	Sturen RA (S10A3)	Lenken RH (S10A3)	Steering RR (S10A3)

7.0	Reserve	Reserve	Spare
7.1	Reserve	Reserve	Spare
CON 7			
7.2	Reserve	Reserve	Spare
7.3	Reserve	Reserve	Spare

8.0	Reserve	Reserve	Spare
8.1	Reserve	Reserve	Spare
CON 8			
8.2	Reserve	Reserve	Spare
8.3	Reserve	Reserve	Spare

9.0	Reserve	Reserve	Spare
9.1	Reserve	Reserve	Spare
CON 9			
9.2	Reserve	Reserve	Spare
9.3	Reserve	Reserve	Spare

10.0	400V run (V20H)	400V run (V20H)	400V run (V20H)
10.1	400V aanwezig (V20H)	400V aanwezig (V20H)	400V present (V20H)
CON 10			
10.2	Stor. 400V M. (V21H)	Stoer. 400V M. (V21H)	Fail. 400V E. (V21H)
10.3	Reserve	Reserve	Spare

11.0	Reserve	Reserve	Spare
11.1	Reserve	Reserve	Spare
CON 11			
11.2	Achteras recht (V8H)	Hintera. gerade (V8H)	Rear A. straight (V8H)
11.3	VA. recht OPT. (V9H)	VA. gerade OPT. (V9H)	FA. straight OPT. (V9H)

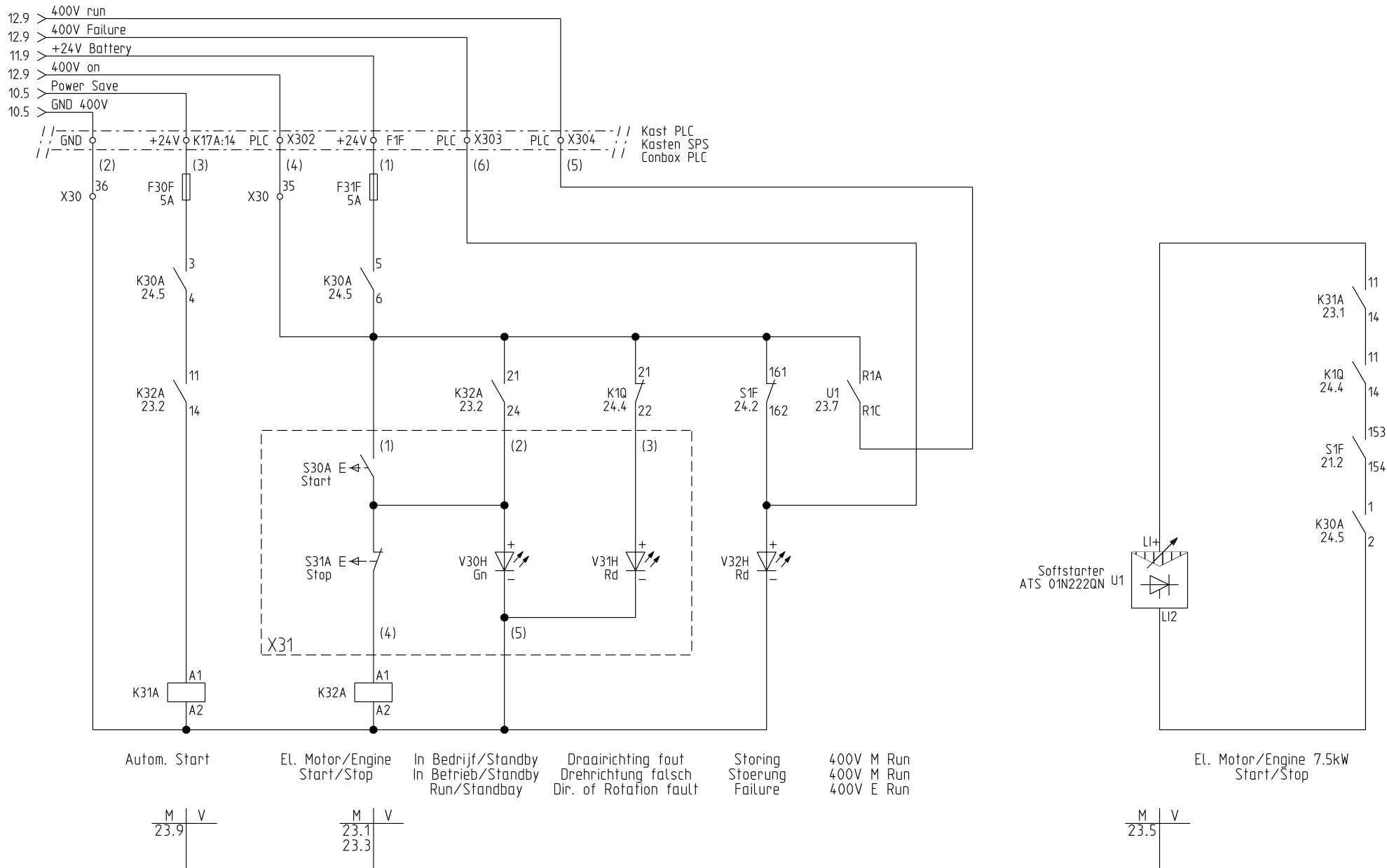


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 Anodeweg 1  
 NL-1627 LJ Hoorn The Netherlands  
 T/F +31 (0)229-285555 / 285550  
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 W www.hollandlift.com

PRINTPLAAT  
 LEITERPLATTE  
 CIRCUIT BOARD

Projekt:	EQ-21-002	Zeichnungsnummer:	Rev.:	erstellt von:
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				Blatt: 22

EL. MOTOR 7.5kW  
 EL. MOTOR 7.5kW  
 EL. ENGINE 7.5kW



Autom. Start

El. Motor/Engine  
 Start/Stop

In Bedrijf/Standby  
 In Betrieb/Standby  
 Run/Standby

Draairichtung fout  
 Drehrichtung falsch  
 Dir. of Rotation fault

Storing  
 Stoerung  
 Failure

400V M Run  
 400V M Run  
 400V E Run

El. Motor/Engine 7.5kW  
 Start/Stop

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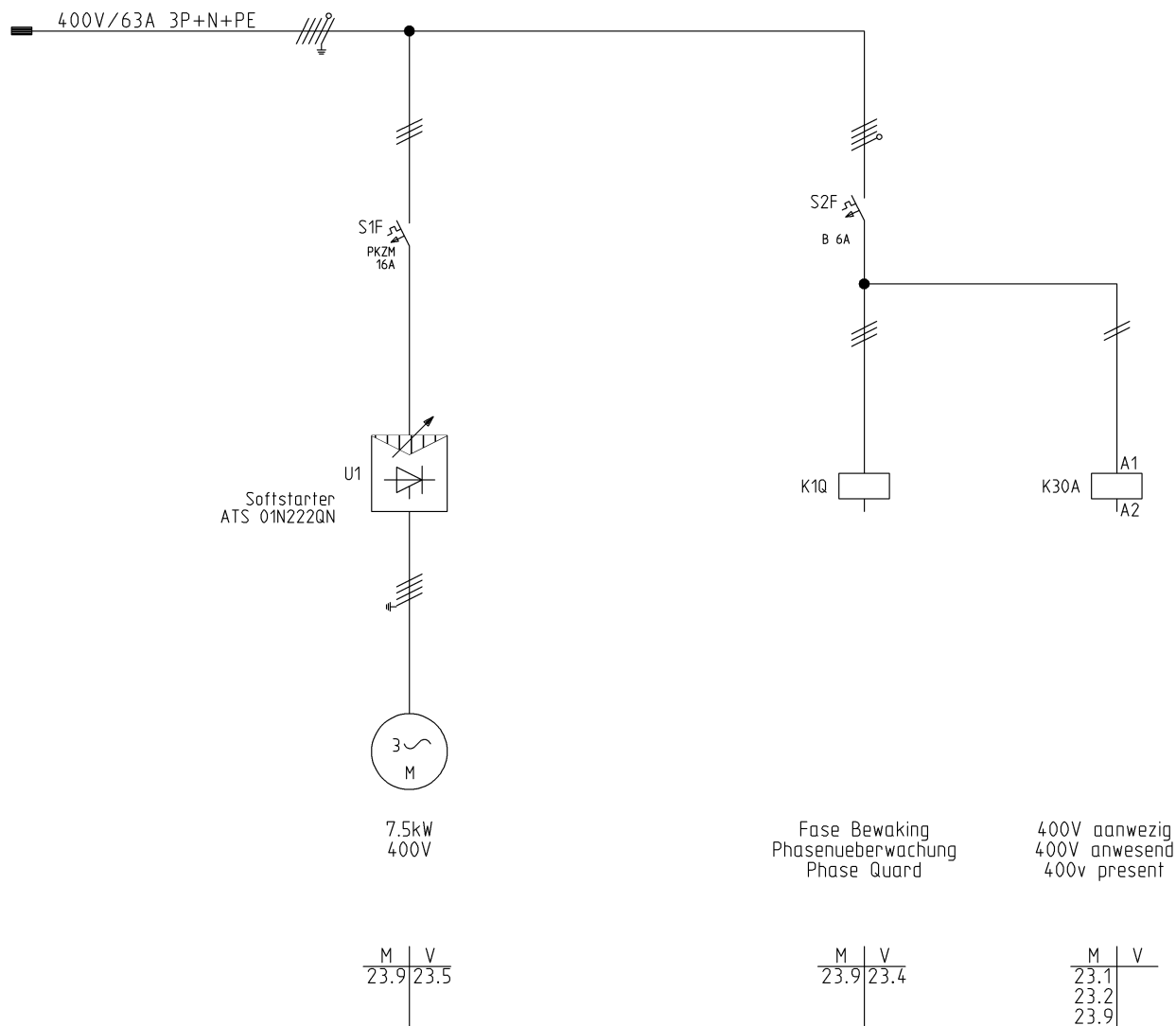


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STROOMKRINGSCHEMA  
 STROMLAUFPLAN  
 CIRCUIT DIAGRAM

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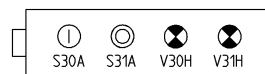
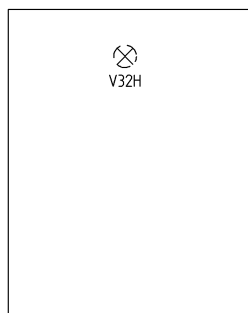
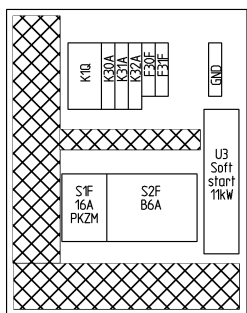
EL. MOTOR 7.5kW  
 EL. MOTOR 7.5kW  
 EL. ENGINE 7.5kW



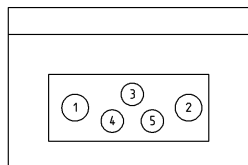
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EL. MOTOR 7.5kW  
 EL. MOTOR 7.5kW  
 EL. ENGINE 7.5kW



S30A STOP  
 S31A START  
 V30H IN BEDRIJF-STANDBY/IN BETRIEB-STANDBY/RUN-STANDBY  
 V31H DRAAIRICHTING FOUT/DREHRICHTUNG FALSCH DIR. OF ROTATION FAULT



1 M32  
 2 M25  
 3-5 M16

WARTEL KABELINF. GLAND NR.	FUNKTIE	FUNKTION	FUNCTION
1	Voeding WCD 63A 3P+N+PE	Speisung WCD 63A 3P+N+PE	Powers. WCD 63A 3P+N+PE
2	Motor 7.5kW	Motor 7.5kW	Engine 7.5kW
3	Kast PLC	Kasten SPS	Box PLC
4	Bedieningkast	Steuerpult	Control Box
5	PE Draad Chassis	PE Draht Chassis	PE Wire Chassis

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