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Acculader
Akkuladegeraet
Battery Charger

M	V
8.9	8.9

Hofdschaklar
Hauptschalter
Maan Switch

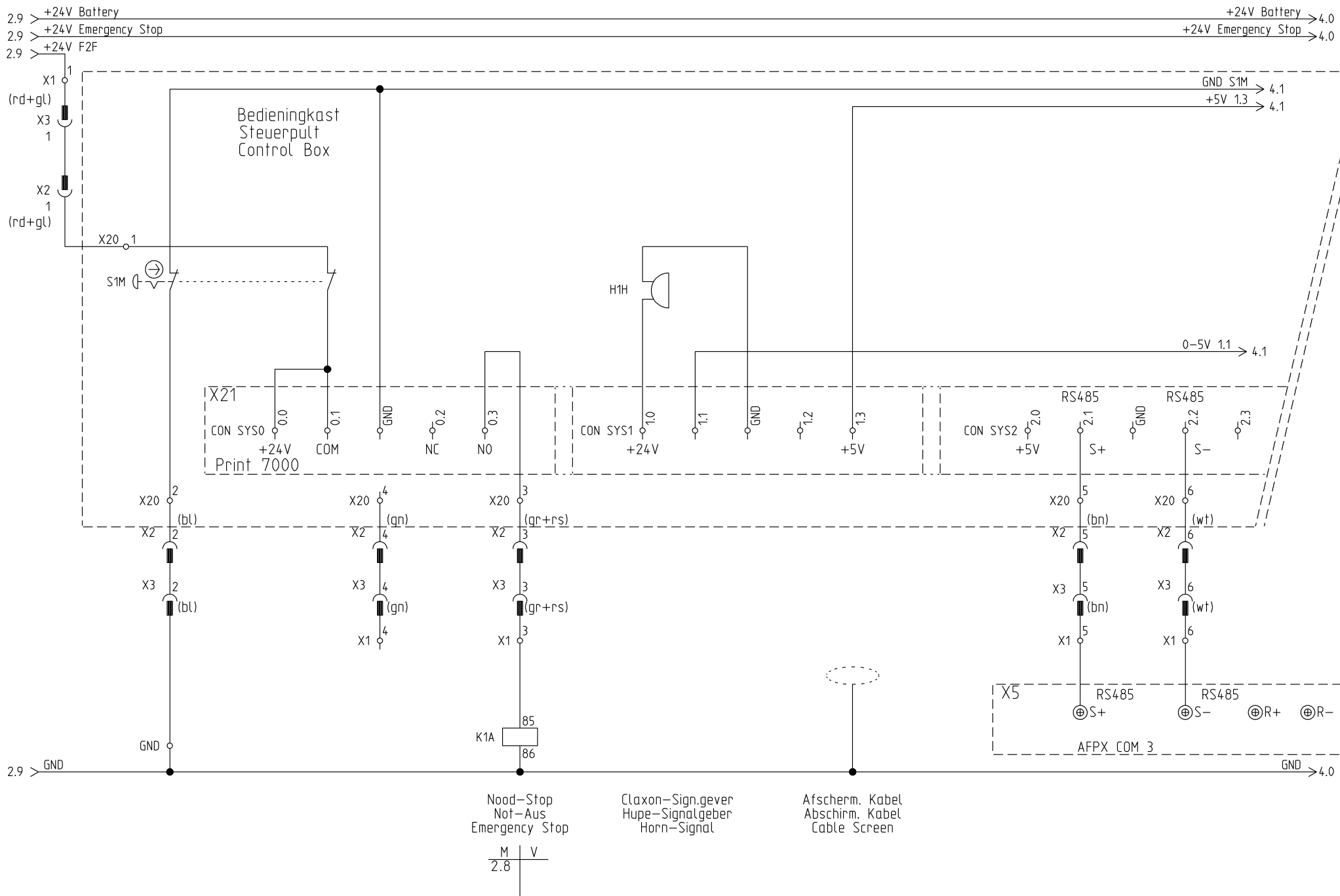
Accuconditiemeter
Akkumeter
Battery Level indic.

M	V
7.9	

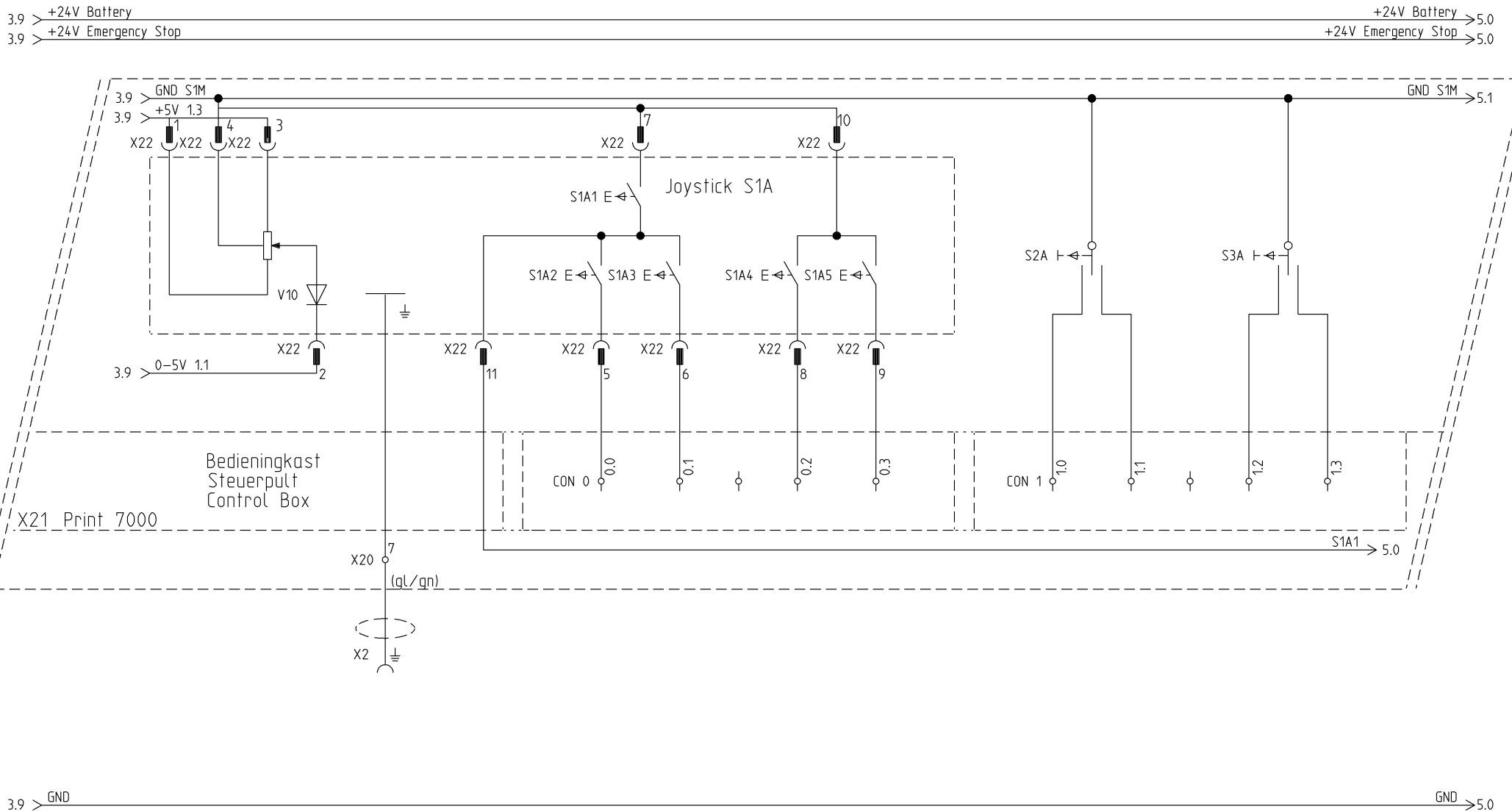
Motor - 17,6 kW AC
El.Hydr.Pompen 10.6cc + 4cc
El.Hydr.Pumpen 10.6cc + 4cc
El.Hydr.Pumps 10.6cc + 4cc

Vetpomp
Fett Pumpe
Grease Pump
Optie/Option

Ventilator Koeling
Fan Kuehlung
Cooling Fan



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Bedieningkast
Steuerpult
Control Box

S1A1 Dodemansknop
S1A1 Totmansknop
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

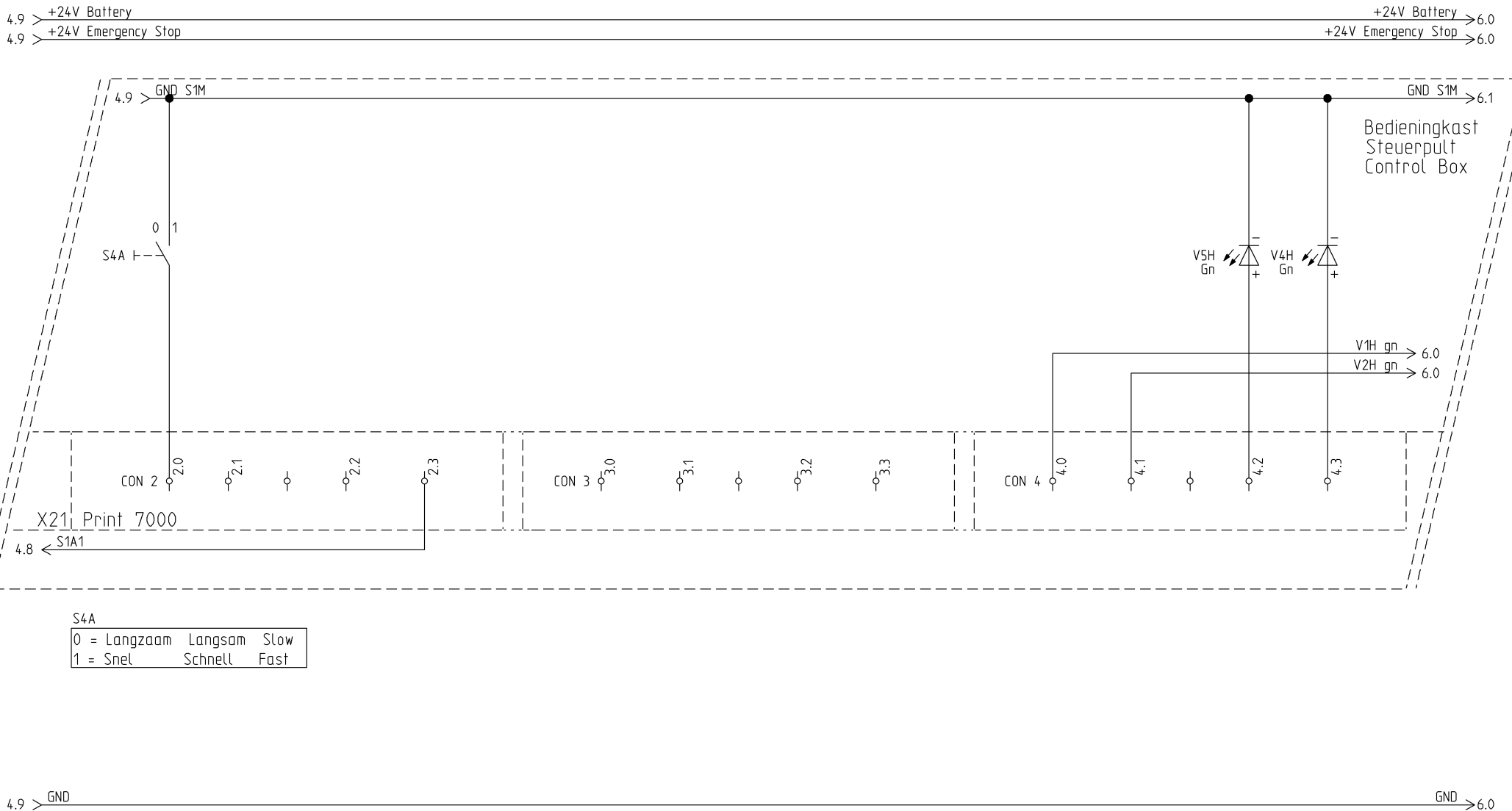
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STROOMKRINGSHEMA
STROMLAUFPLAN
CIRCUIT DIAGRAM

Projekt: EQ-21-001	Zeichnungsnummer:	Rev.: A	erstellt von: Rothenbusch
Datum: 27.03.2017	Anlage: =	Ort: +	Blatt: 4



S4A
 0 = Langzaam Langsam Slow
 1 = Snel Schnell Fast

Snelheid
 Geschwindigkeit
 Speed

S1A1 Dodemansknop
 S1A1 Totmansknop
 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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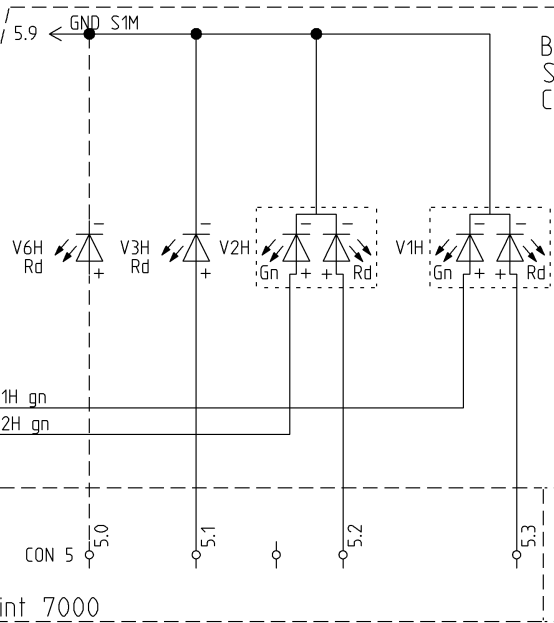
STROOMKRINGSHEMA
 STROMLAUFPLAN
 CIRCUIT DIAGRAM

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Datum: 27.03.2017	Anlage: =	Ort: +	Blatt: 5

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

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

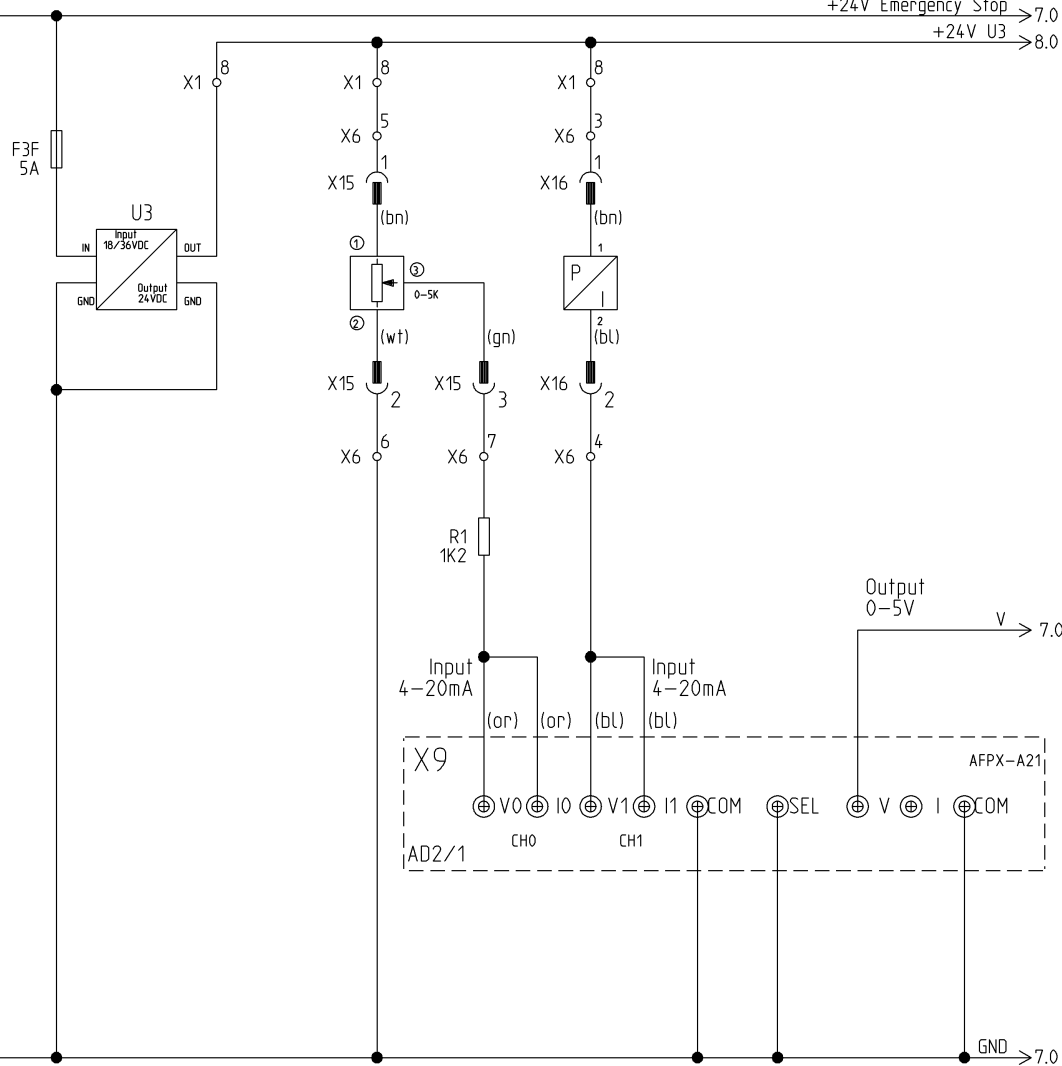
Bedieningskast
Steuerpult
Control Box



V1H	gn: Accu geladen	gl: Accu waarschuwing	rd: Accu Leeg
	gn: Akku geladen	gl: Akku Warning	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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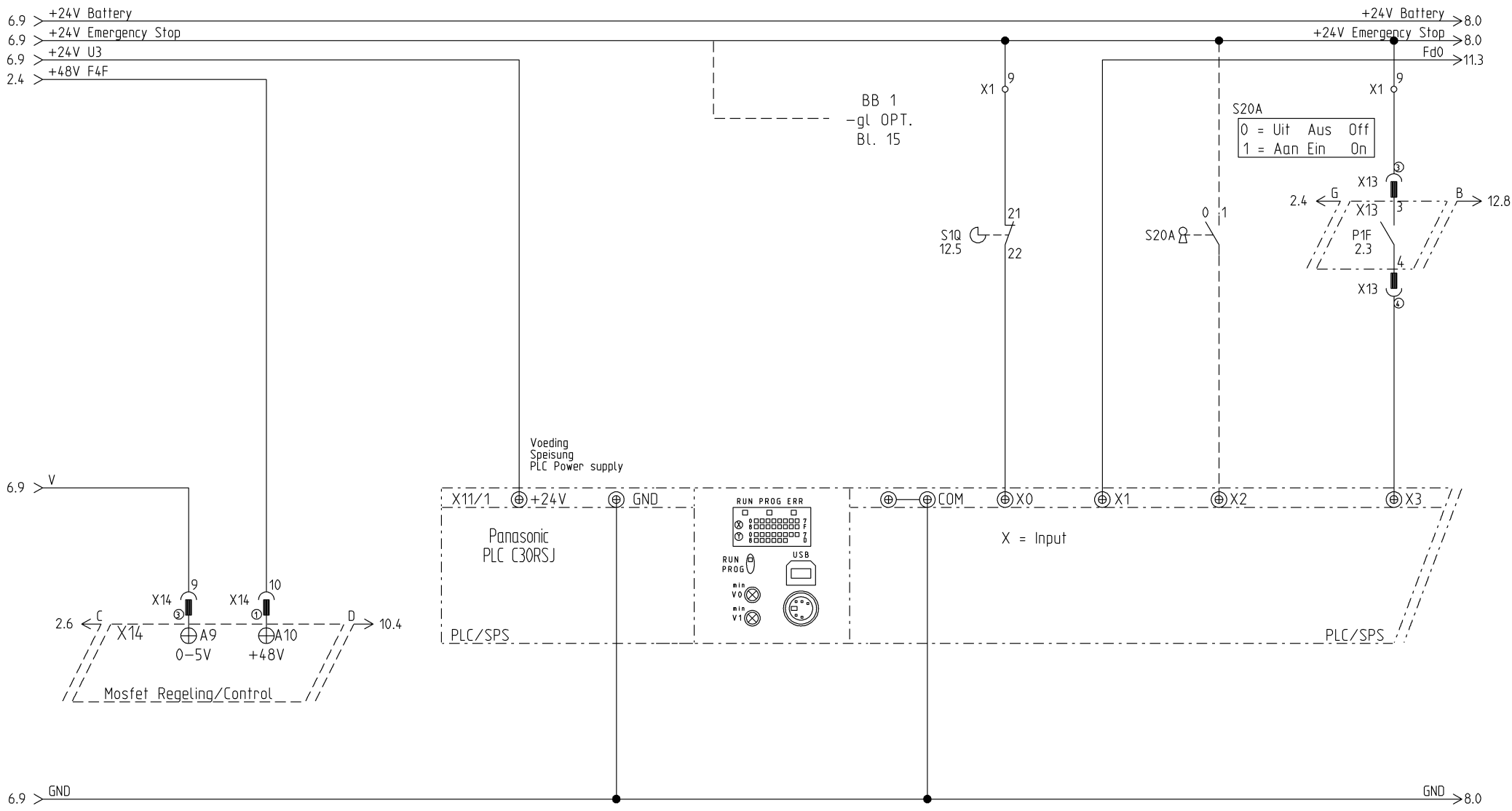


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STROOMKRINGSCHEMA
STROMLAUFPLAN
CIRCUIT DIAGRAM

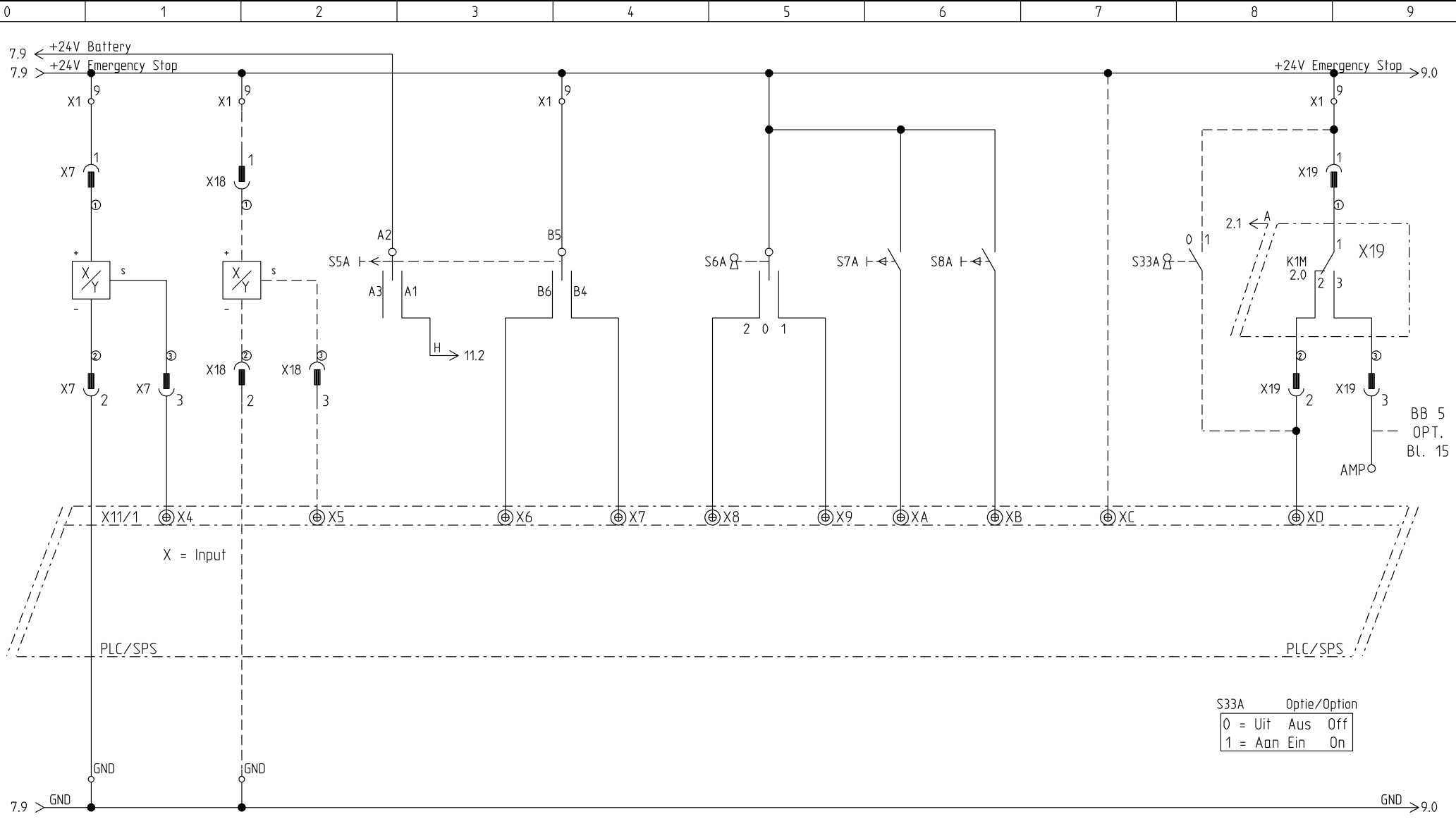
Projekt:	EQ-21-001	Zeichnungsnummer:	Rev.:	A	erstellt von:	Rothenbusch	
Datum:	27.03.2017	Anlage:	=	Ort:	+	Blatt:	6

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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

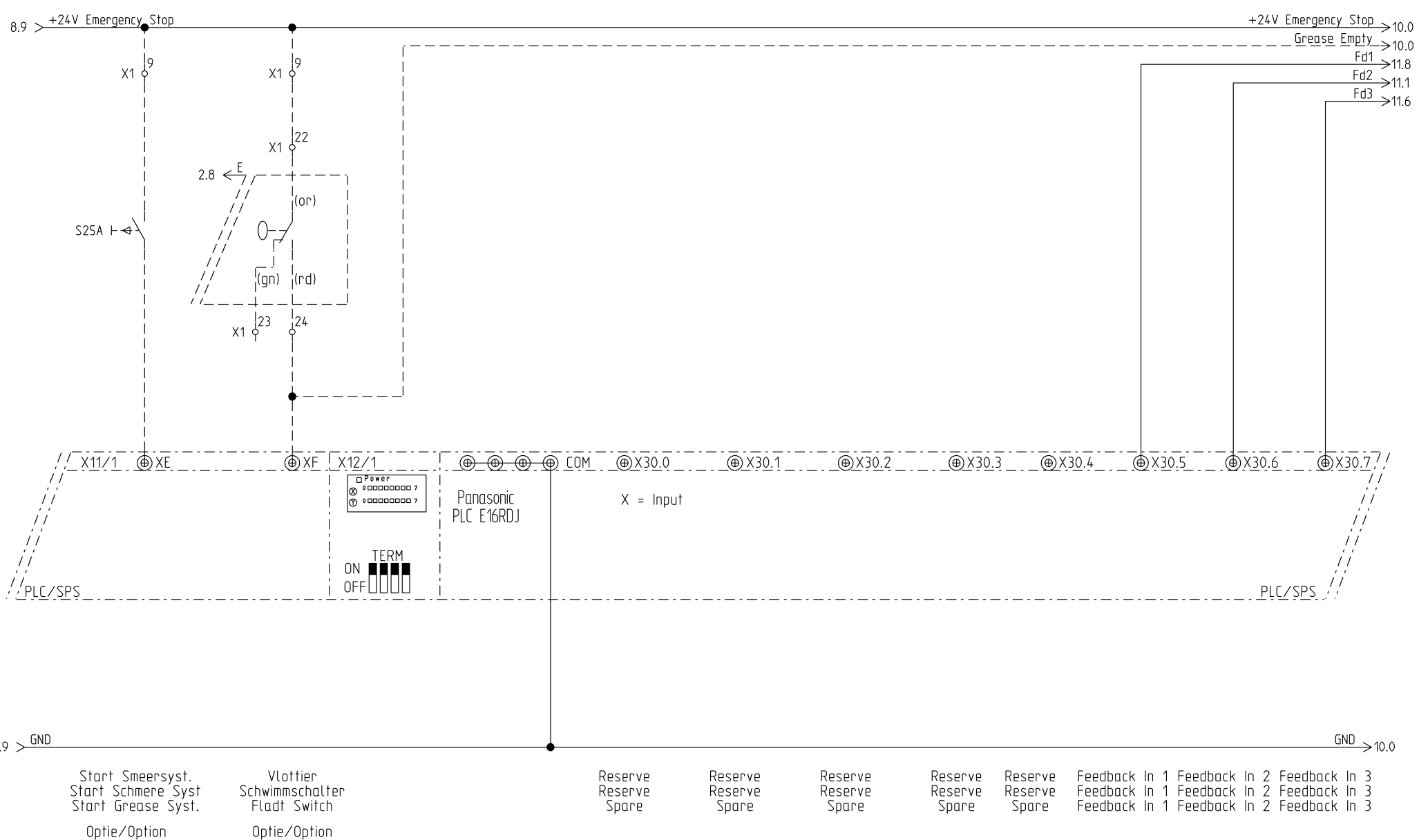


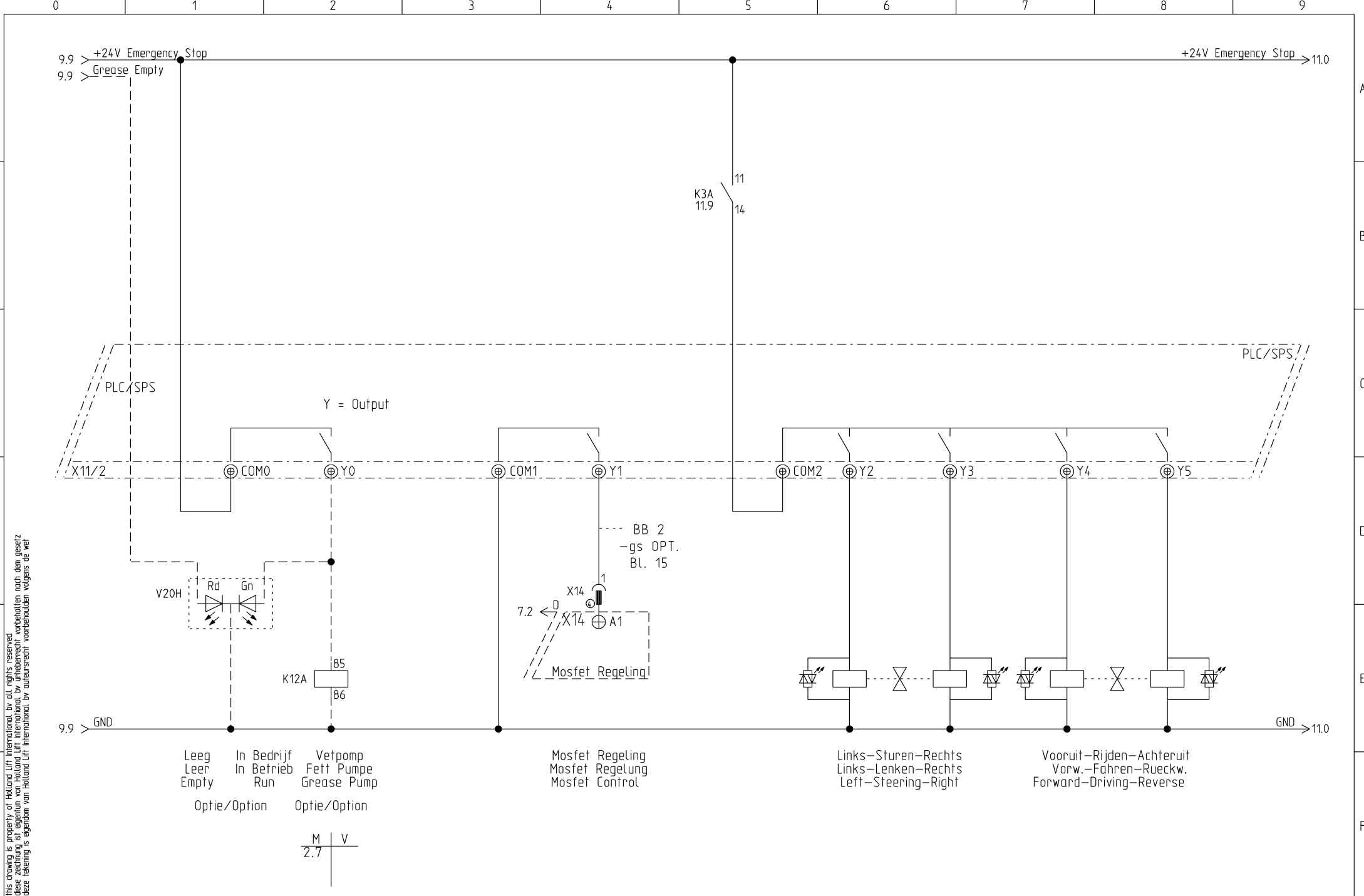
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STROOMKRINGSHEMA
STROMLAUFPLAN
CIRCUIT DIAGRAM

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Datum: 27.03.2017	Anlage: =	Ort: +	Blatt: 8

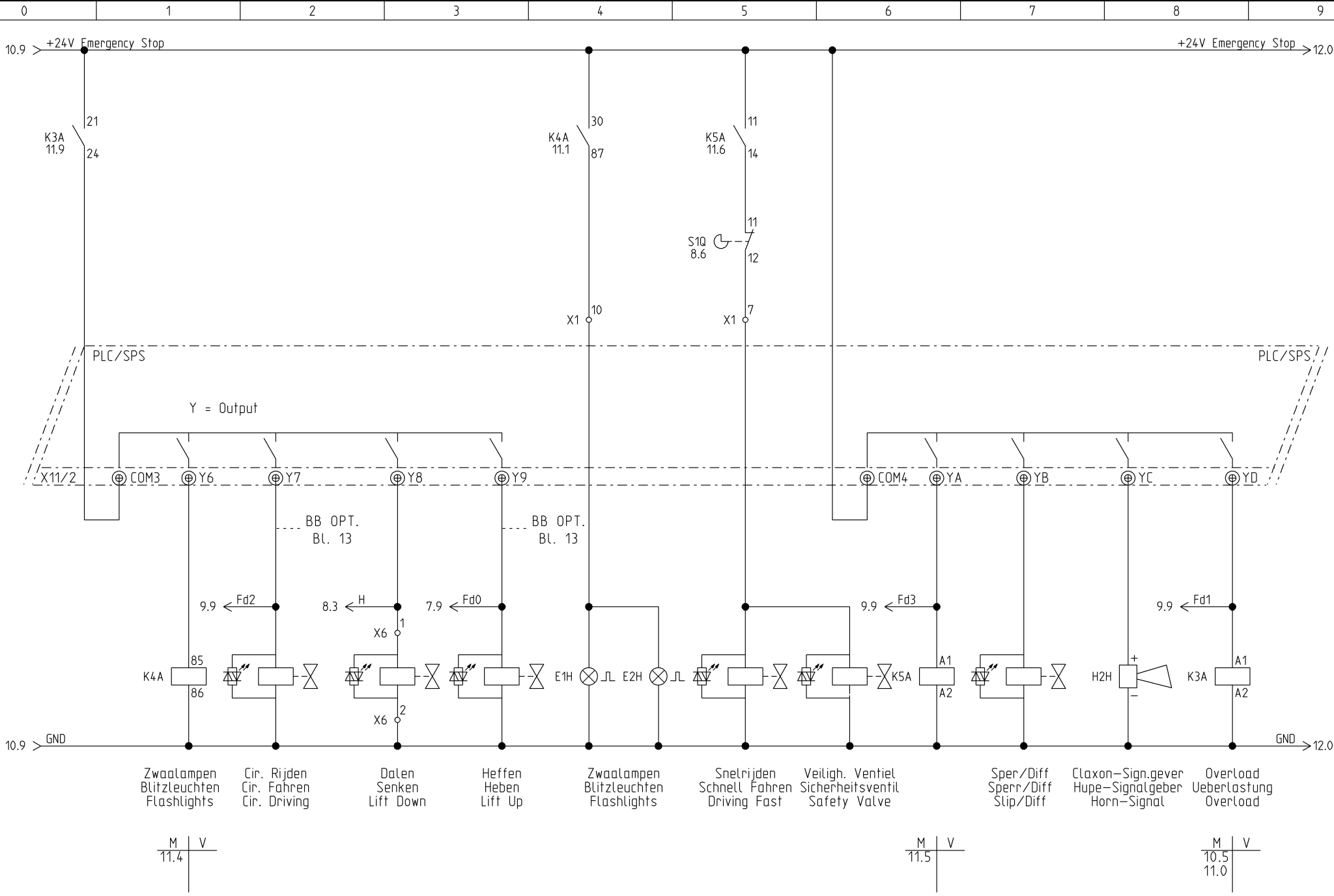
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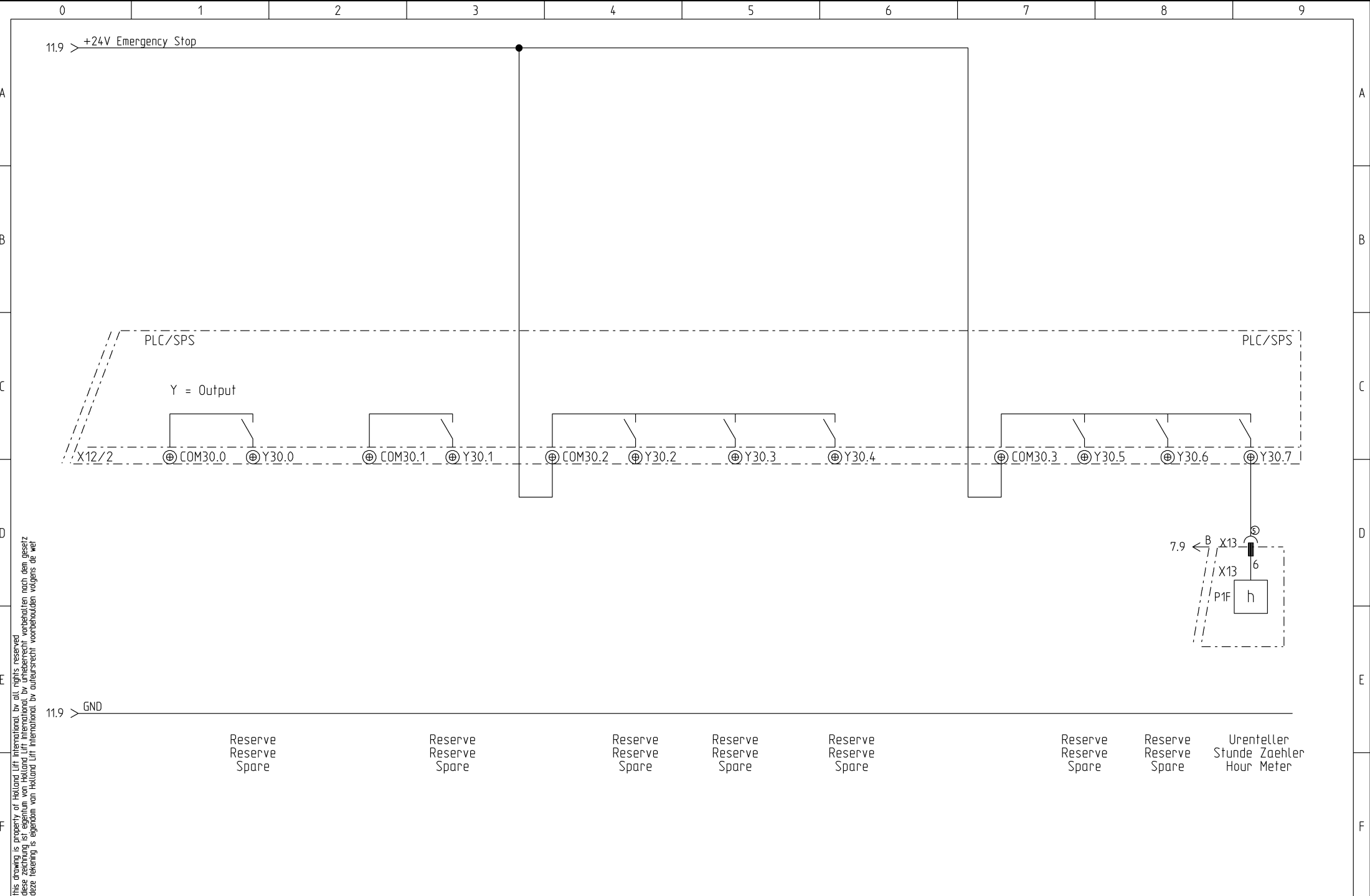
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STROOMKRINGSCHEMA
 STROMLAUFPLAN
 CIRCUIT DIAGRAM

Projekt:	EQ-21-001	Zeichnungsnummer:	Rev.:	A	erstellt von:	Rothenbusch
Datum:	27.03.2017	Anlage:	Ort:	=	Blatt:	11



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STROOMKRINGSHEMA
 STROMLAUFPLAN
 CIRCUIT DIAGRAM

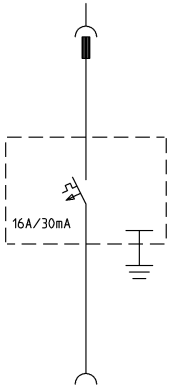
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Datum:	27.03.2017	Anlage:	=	Ort:	+	Blatt:	12

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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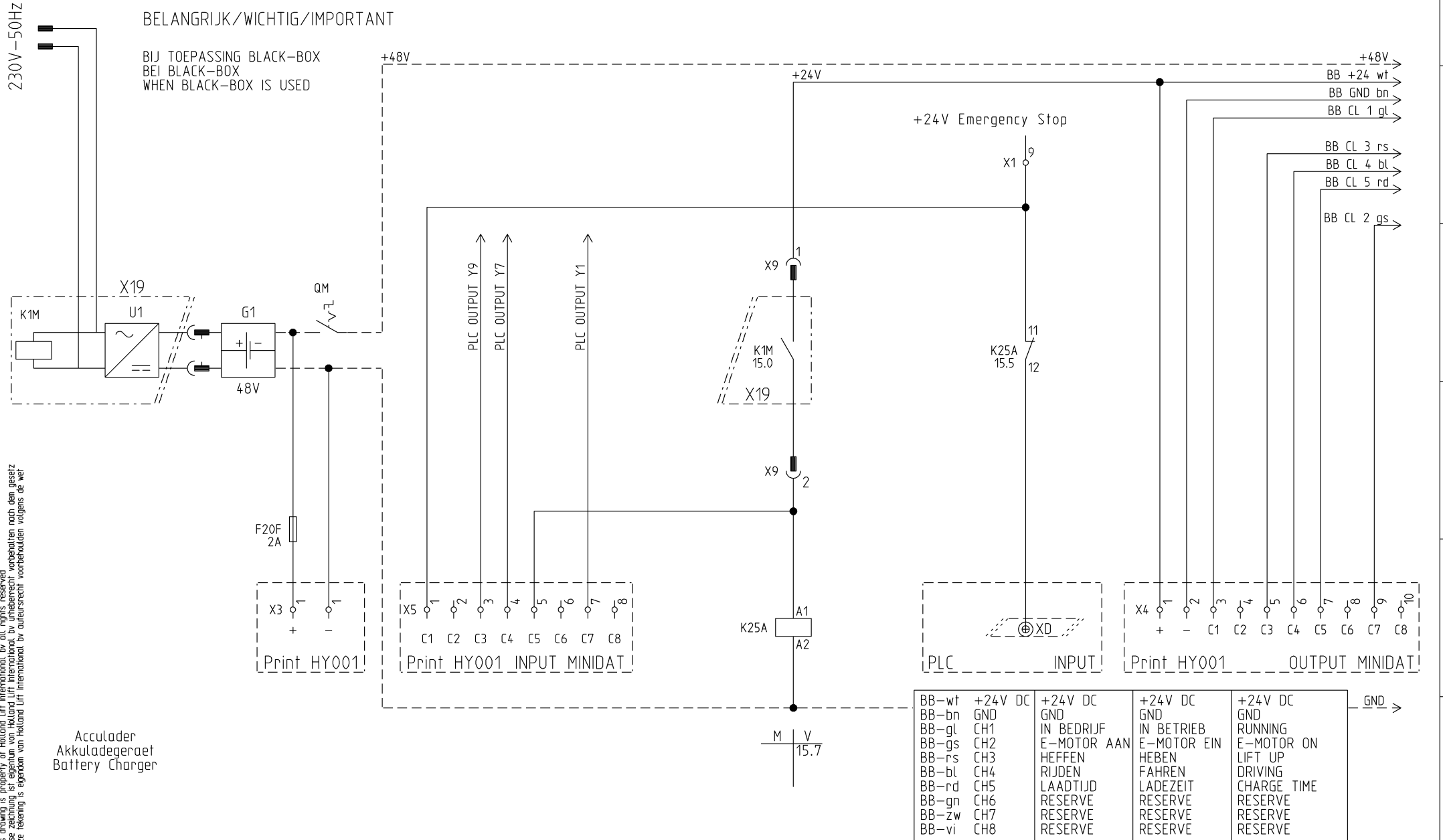
OPTIES
 OPTIONEN
 OPTIONS

Projekt: EQ-21-001	Zeichnungsnummer:	Rev.: 27.03.2017	erstellt von: Rothenbusch
Datum: 08.02.2017	Anlage: =	Ort: +	Blatt: 13

OPTIES OPTIONEN OPTIONS

BELANGRIJK / WICHTIG / IMPORTANT

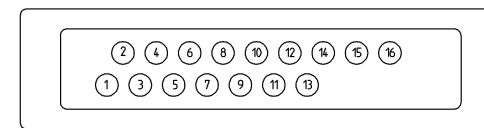
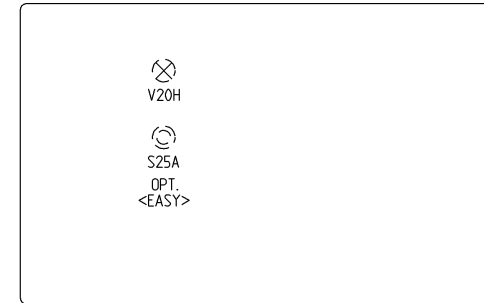
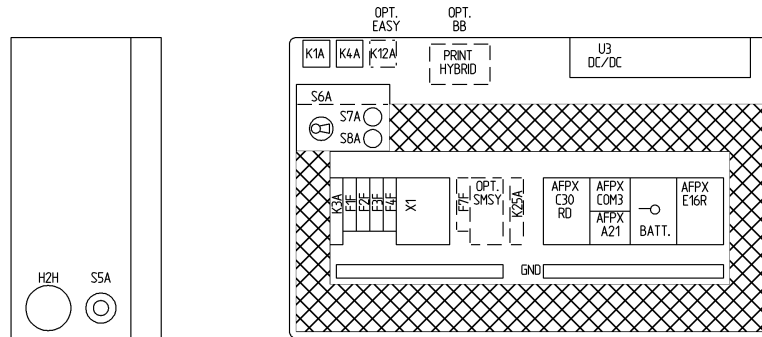
BIJ TOEPASSING BLACK-BOX
BEI BLACK-BOX
WHEN BLACK-BOX IS USED



Acculader
Akkuladegeraet
Battery Charger

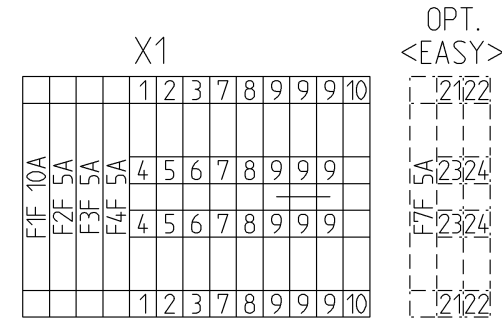
BB-wt	+24V DC	+24V DC	+24V DC	+24V DC	GND
BB-bn	GND	GND	GND	GND	
BB-gl	CH1	IN BEDRIJF	IN BETRIEB	RUNNING	
BB-gs	CH2	E-MOTOR AAN	E-MOTOR EIN	E-MOTOR ON	
BB-rs	CH3	HEFFEN	HEBEN	LIFT UP	
BB-bl	CH4	RIJDEN	FAHREN	DRIVING	
BB-rd	CH5	LAADTIJD	LADEZEIT	CHARGE TIME	
BB-gn	CH6	RESERVE	RESERVE	RESERVE	
BB-zw	CH7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

KLEMMENKAST KLEMMENKASTEN CONNECTION BOX

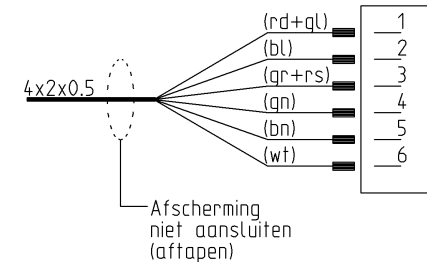


WARTEL KABELINF. GLAND NR.	KLEM KLEMME TERMINAL NR	FUNKTIE	FUNKTION	FUNCTION
1	DIV/VAR	Aansl. 6P Platform	Anschl. 6P Plattform	Conn. 6P Platform
2.1	DIV/VAR	Smersytem Opt.	Schmiere System Opt.	Grease System Opt.
2.2	DIV/VAR	Minidat Optie	Minidat Option	Minidat Option
3	DIV/VAR	Lasdoos X6	Verteilerdose 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	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	φ7-GND	Veiligheids Ventiel	Sicherheitsventil	Safety Valve
8.1	YB-GND	Sper/Diff. Ventiel	Sperr/Diff. Ventil	Slip/Diff. Valve
8.2	DIV/VAR	Mosfet Motorregeling	Mosfet Motorregelung	Mosfet Motor Control
9.1	φ10-GND	Zwaailamp	Blitzleuchte	Flashlight
9.2	φ10-GND	Zwaailamp	Blitzleuchte	Flashlight
9.3	φ9-GND	Ventilator Koeling	Fan Kuehlung	Cooling Fan
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	Y30.2-GND	Stabilisatie In	Stabilisierung Ein	Stabelizing In
13.2	Y30.3-GND	Stabilisatie Uit	Stabilisierung Aus	Stabelizing Out
14.1	φ9-X30.0	Stabilisatie Links Uit	Stabilisierung Links Aus	Stabelizing Left Out
14.2	φ9-X30.1	Stabilisatie Rechts Uit	Stabilisierung Rechts Aus	Stabelizing Right Out
15.1	φ9-X30.2	Stabilisatie Links In	Stabilisierung Links Ein	Stabelizing Left In
15.2	φ9-X30.3	Stabilisatie Rechts In	Stabilisierung Rechts Ein	Stabelizing Right In

1-16 M20



AANSLUITING OP PLATFORM
ANSCHLUSS AUF PLATTFORM
CONNECTION ON PLATFORM



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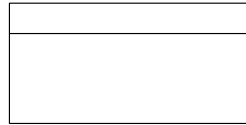
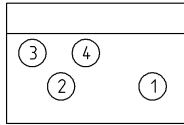
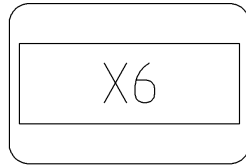


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KASTEN/BEKABELING
KASTEN/KABEL
BOXES/CABLES

Projekt: EQ-21-001	Zeichnungsnummer:	Rev.: A	erstellt von: Rothenbusch
Datum: 27.03.2017	Anlage: =	Ort: +	Blatt: 15

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



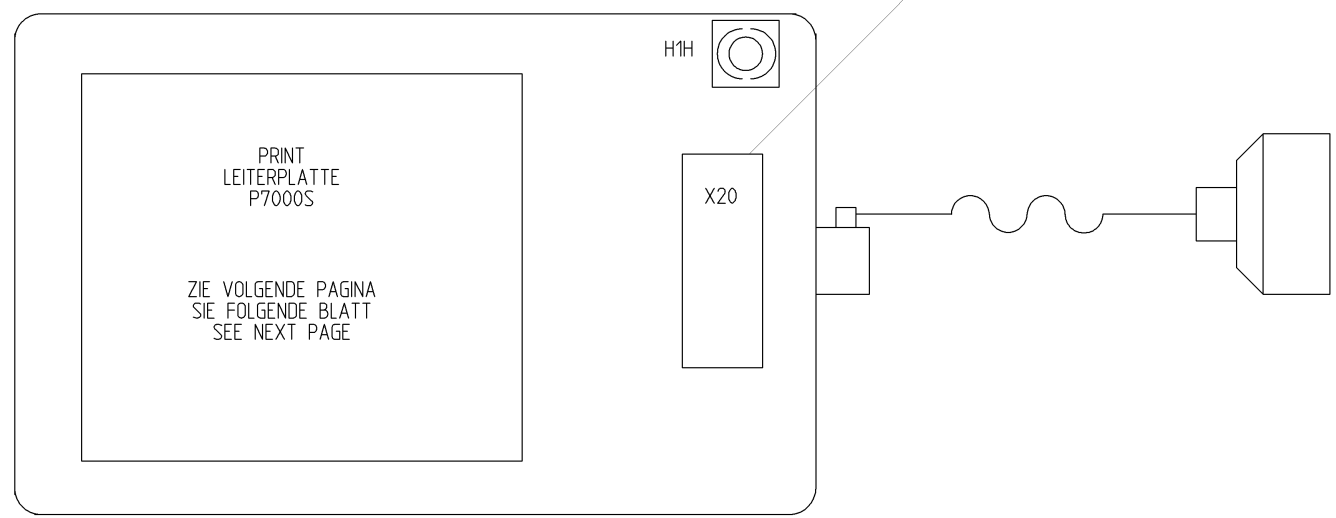
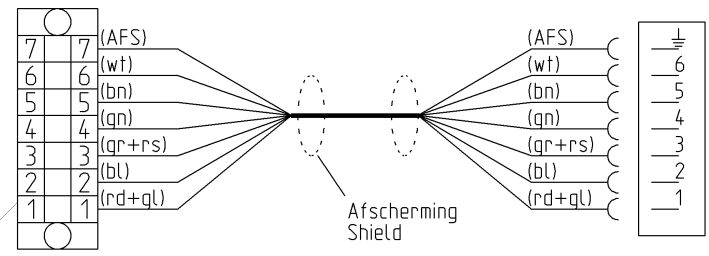
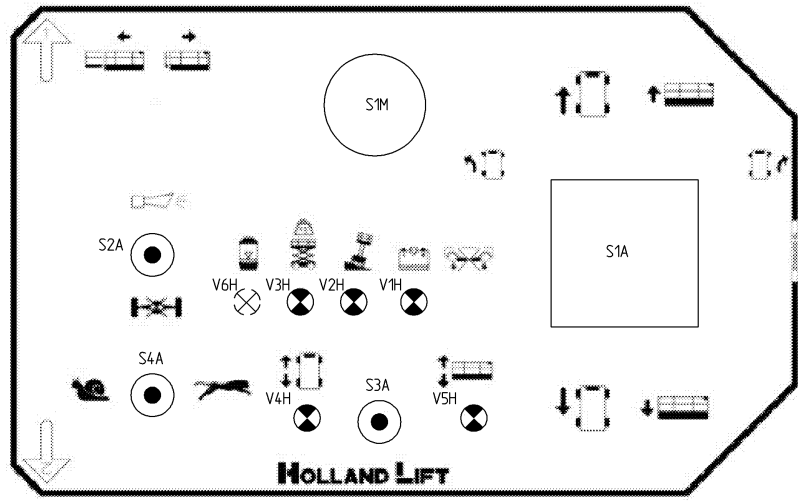
2-4 M12
 1 PG16

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



ZIE VOLGENDE PAGINA
SIE FOLGENDE BLATT
SEE NEXT PAGE

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

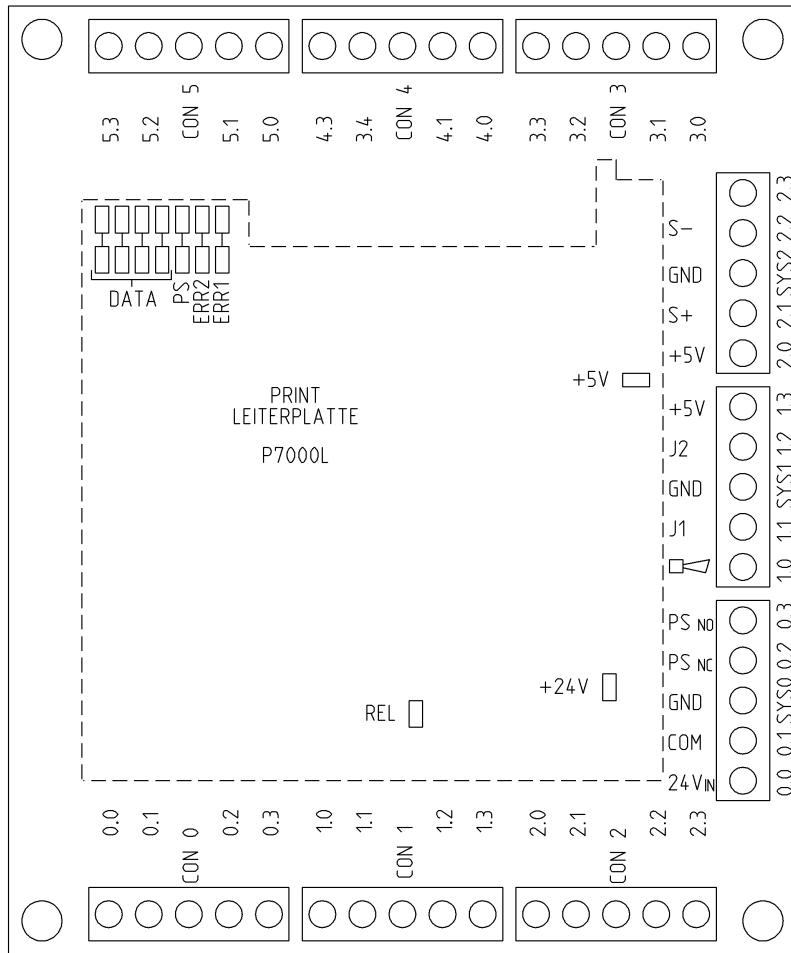
Projekt: EQ-21-001
 Datum: 27.03.2017

Zeichnungsnummer:
 Anlage: =

Rev.: A
 Ort: +

erstellt von: Rothenbusch
 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	Sperr/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	Reserve	Reserve	Spare
CON 2			
2.2	Reserve	Reserve	Spare
2.3	Dodemansknopt (S1A1)	Totmansknopt (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	Stabilisatie (V7H)	Stabilisierung (V7H)	Stabelizing (V7H)

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 rd (V2H)	Inclination rd (V2H)
5.3	Accu rd (V1H)	Akku rd (V1H)	Battery rd (V1H)

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PRINTPLAAT
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