



FLUID CONTROL SYSTEMS

SY07CS

Schaltschrank für Versuchsstand Laborbehälter

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Identnummer	ID number	00320547
Workflownummer	Workflow number	
Dok ID	Doc ID	9560016088
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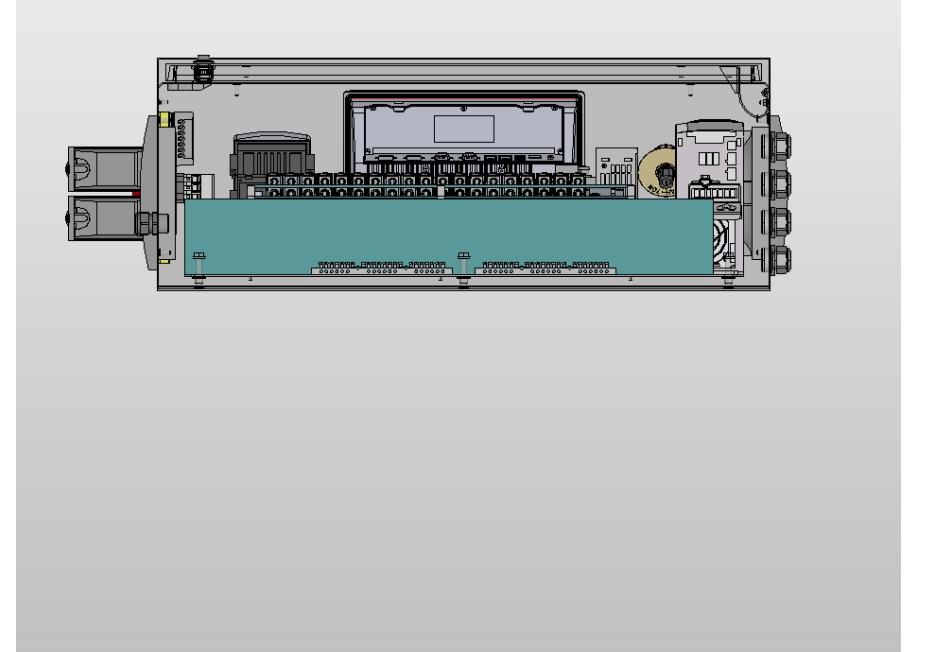
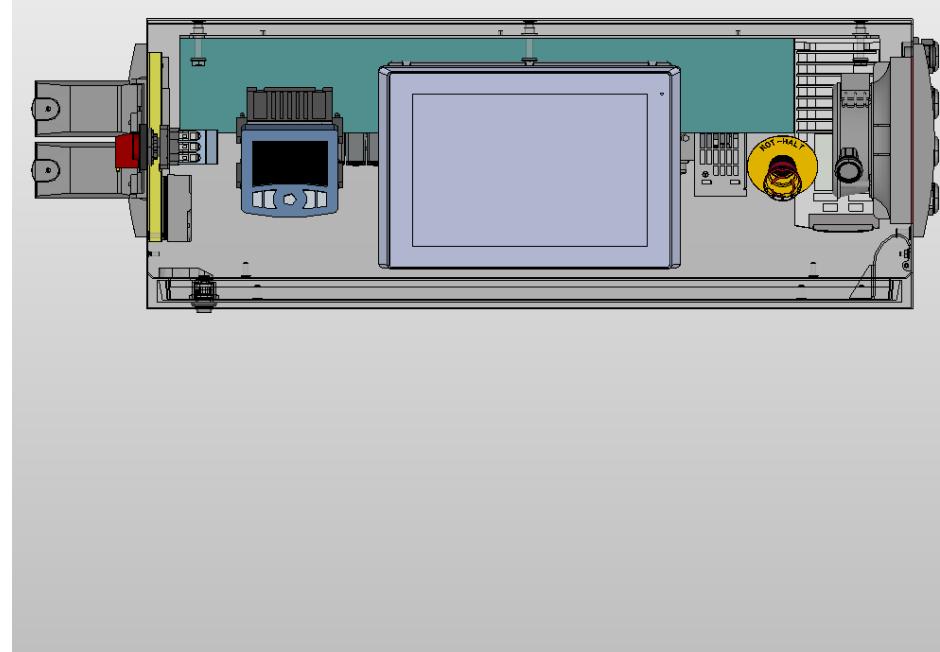
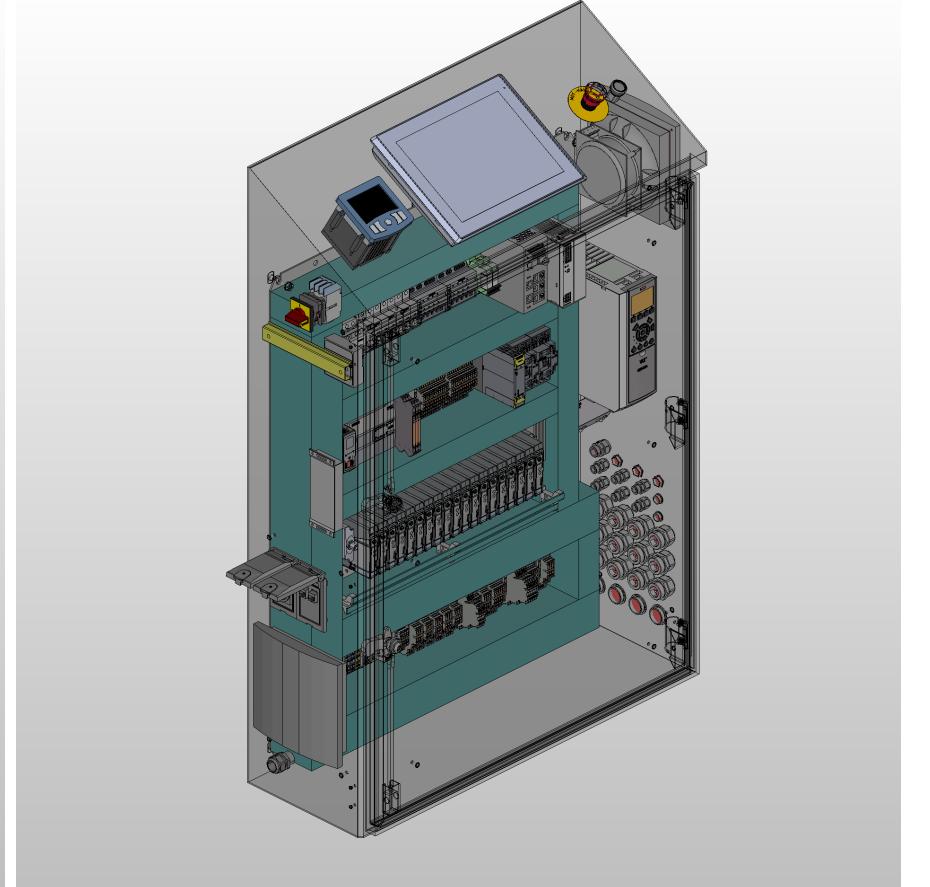
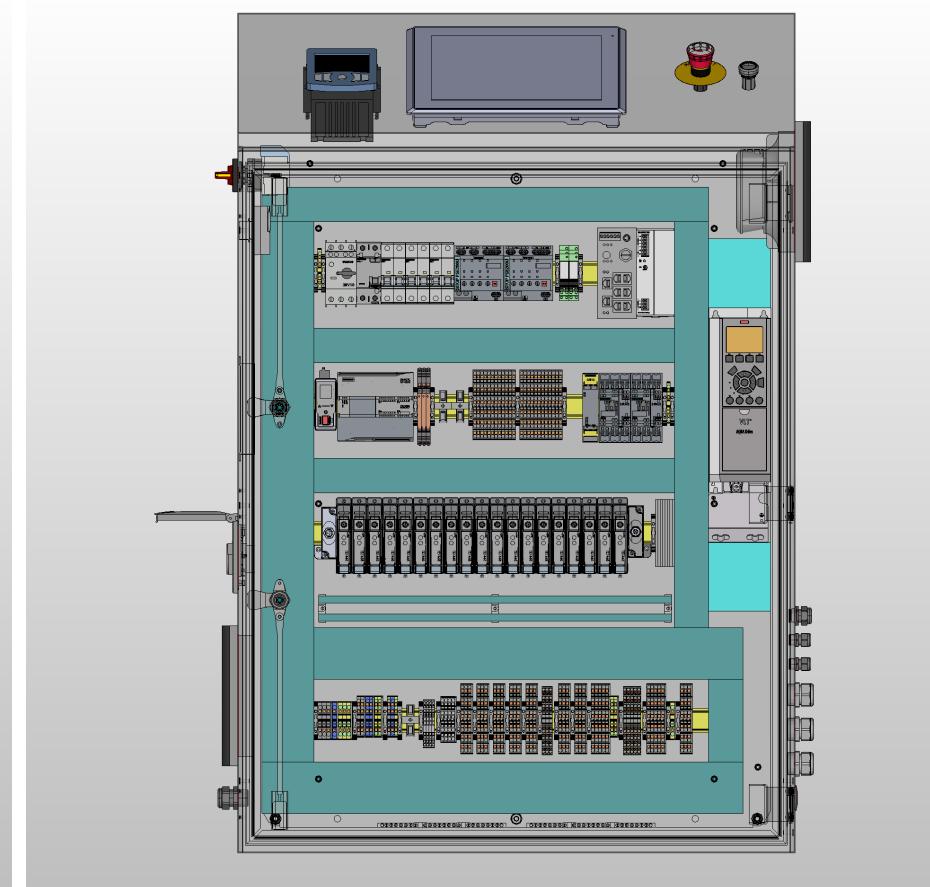
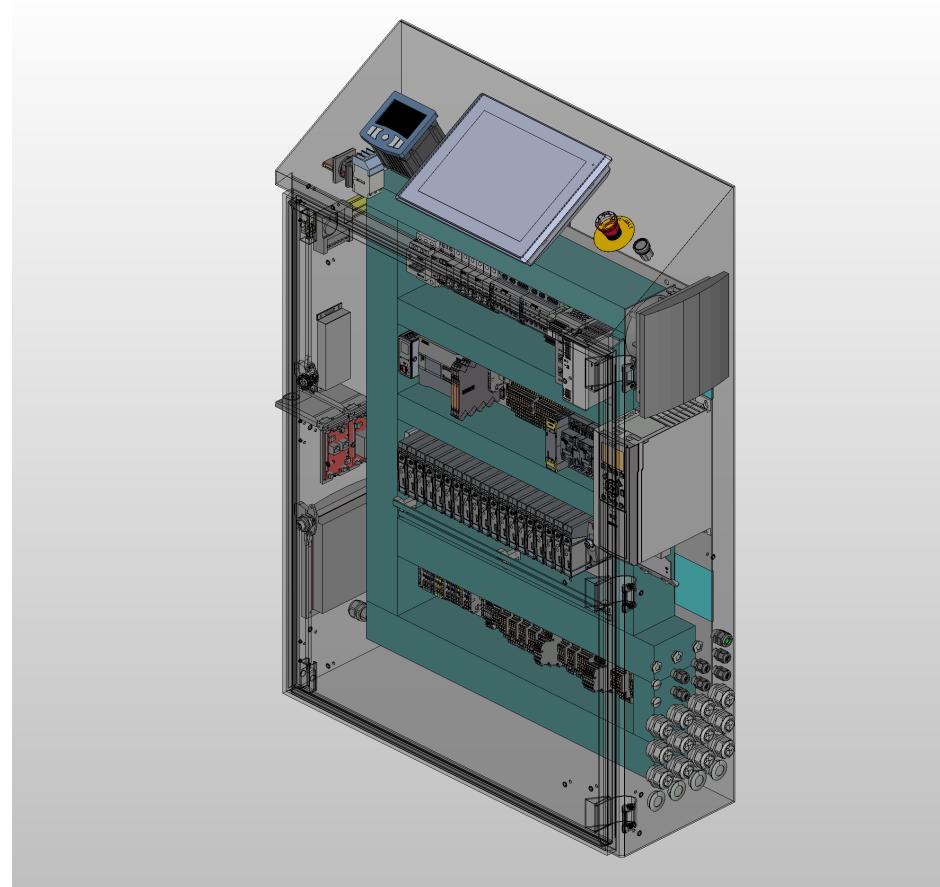
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& BAB	Inhaltsverzeichnis	8615	Artikel Typ	Steuerspannung	[V]:	24	BK	115-230 VAC		
& BDB	Erläuternde Dokumente	00	Ventilinsel Typ	Leistung	[KW]:	0,8	(L)BU	N		
& BLD	Anordnungspläne / Übersicht / Aufbaupläne	0	Anzahl Ventilinsel	Druckbereich	[bar]:	6	RD	120-230 V nach Steuertransformator		
& PFA	Übersicht Prozeßtechnik	0000	Ventil Typ	Baujahr	:	2018	RD/WH	N nach Steuertransformator		
& BFS	Stromlaufpläne	+ +	Fluidpläne	0	Wirkungsweise	Nennfrequenz	[Hz]:	50	(D)BU	24 VDC
& BPC	Stückliste Elektro	+ +	Fluid	400	Spannungsversorgung Anlage	Steuerfrequenz	[Hz]:	DC	(D)BU/WH	0 VDC GND
& BMA	Klemmenpläne, Klemmen-/Steckerübersicht	AC	Frequenz	Vorsicherung max	[A]:	16	BN	analoge Signale	+	+
& BMB	Kabelpläne	PN	Kommunikation				WH	analoge Signale	-	-
							OG	Fremdspannung / vor Hauptschalter		

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Status	In Prüfung	SY07CS Versuchsstand Laborbehälter	Technische Kenngrößen	 burkert FLUID CONTROL SYSTEMS	Project No: 13421 ID-No: 00320547 WF-No: SN:	& BDB			
Date	22.03.2018					= 8615			
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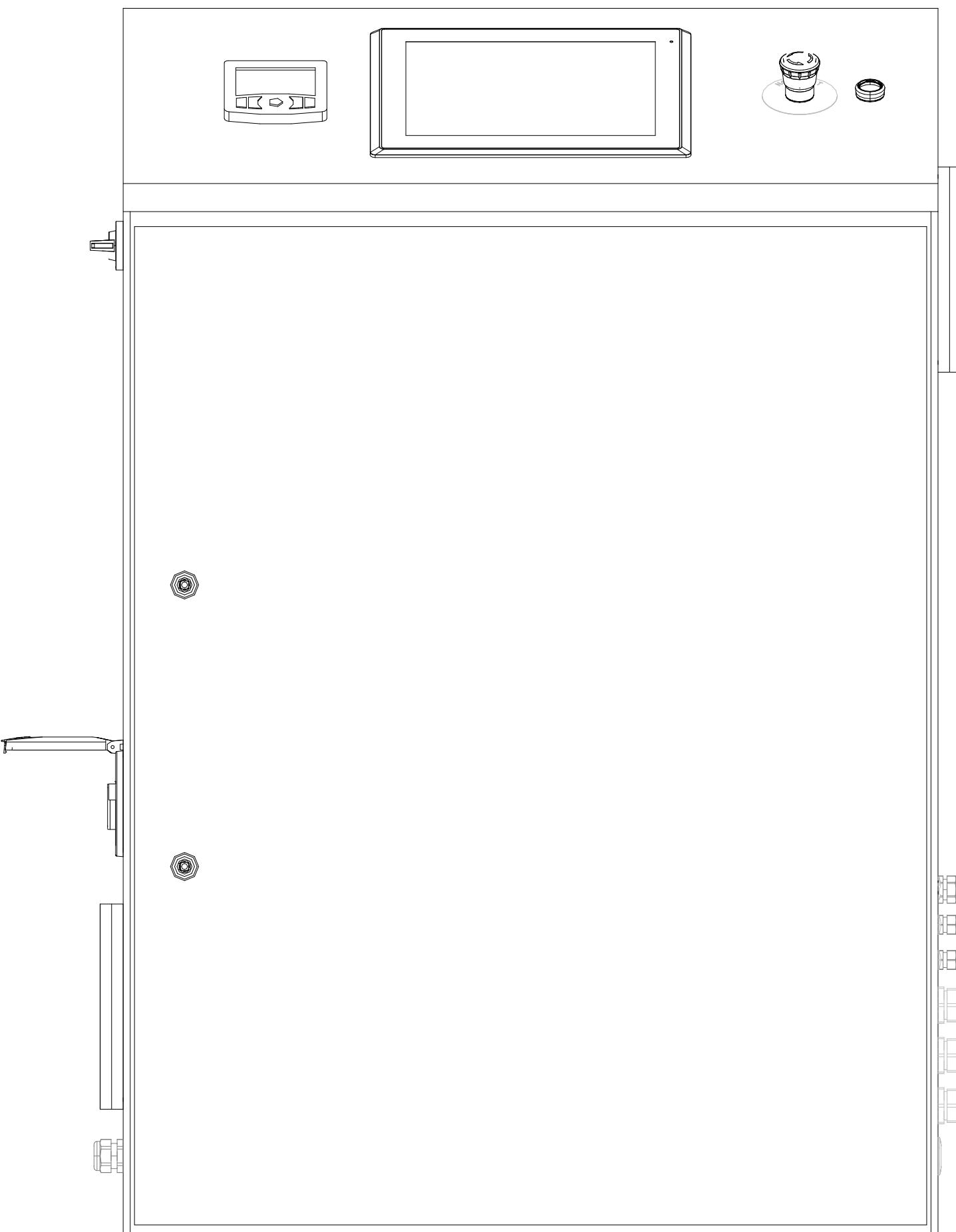
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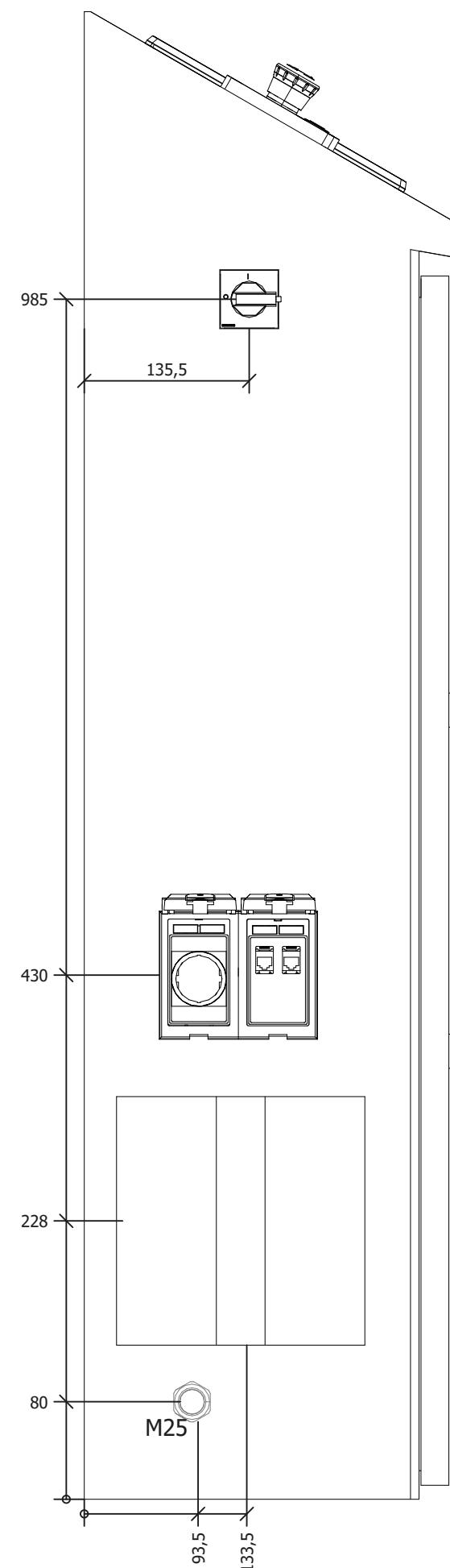
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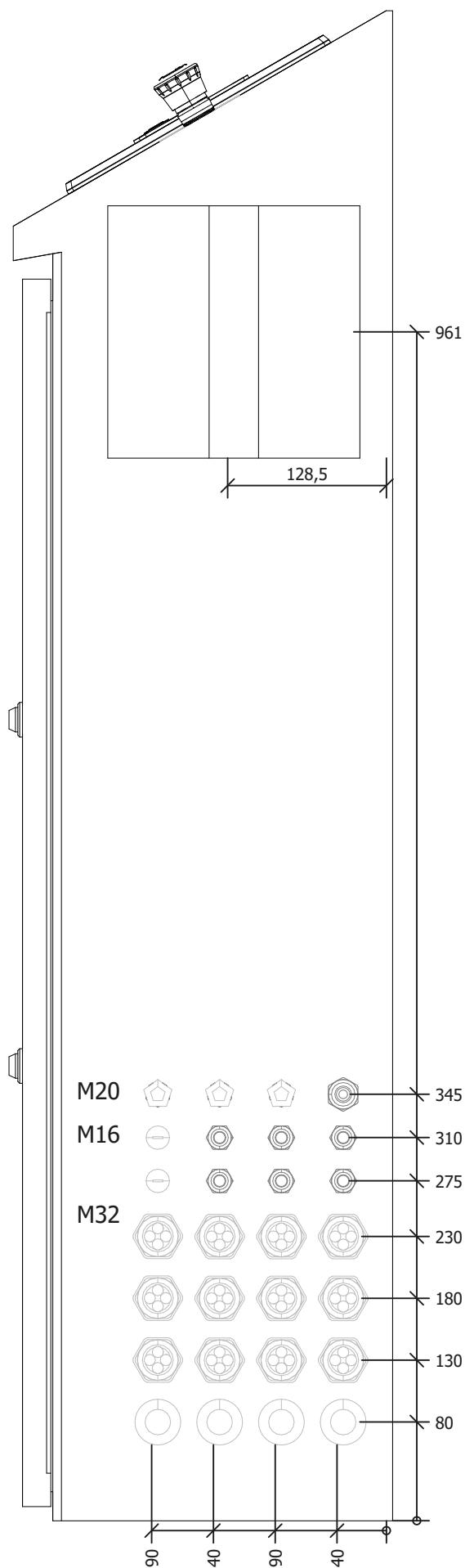
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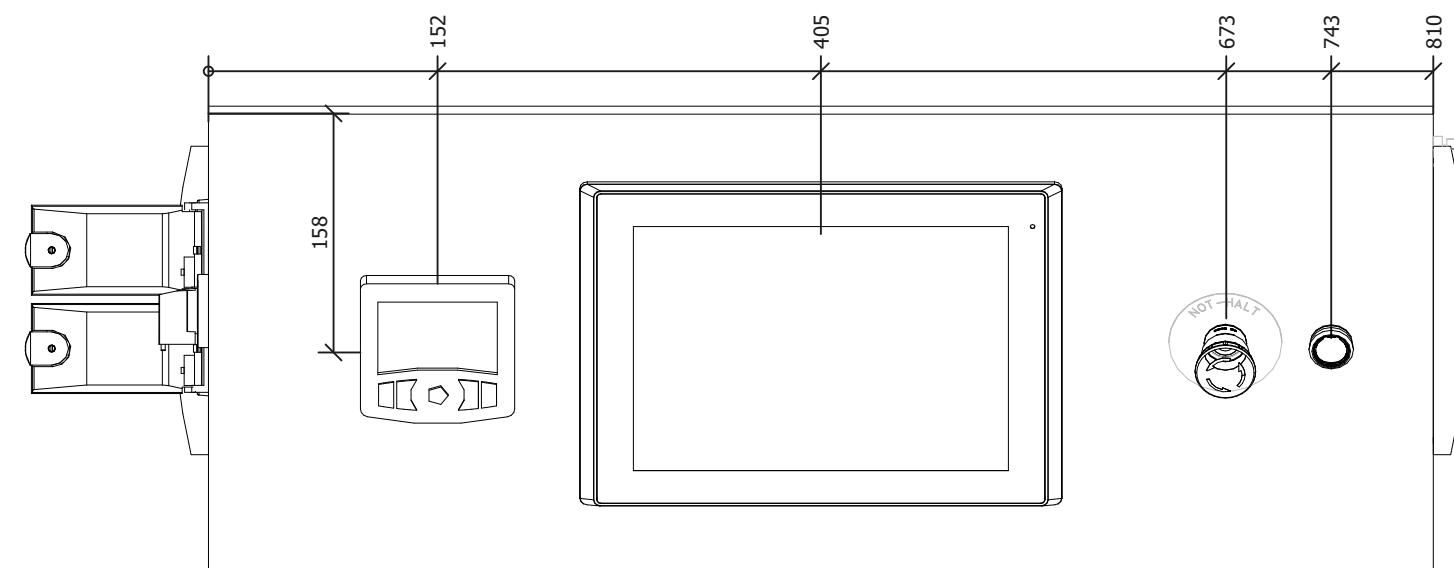
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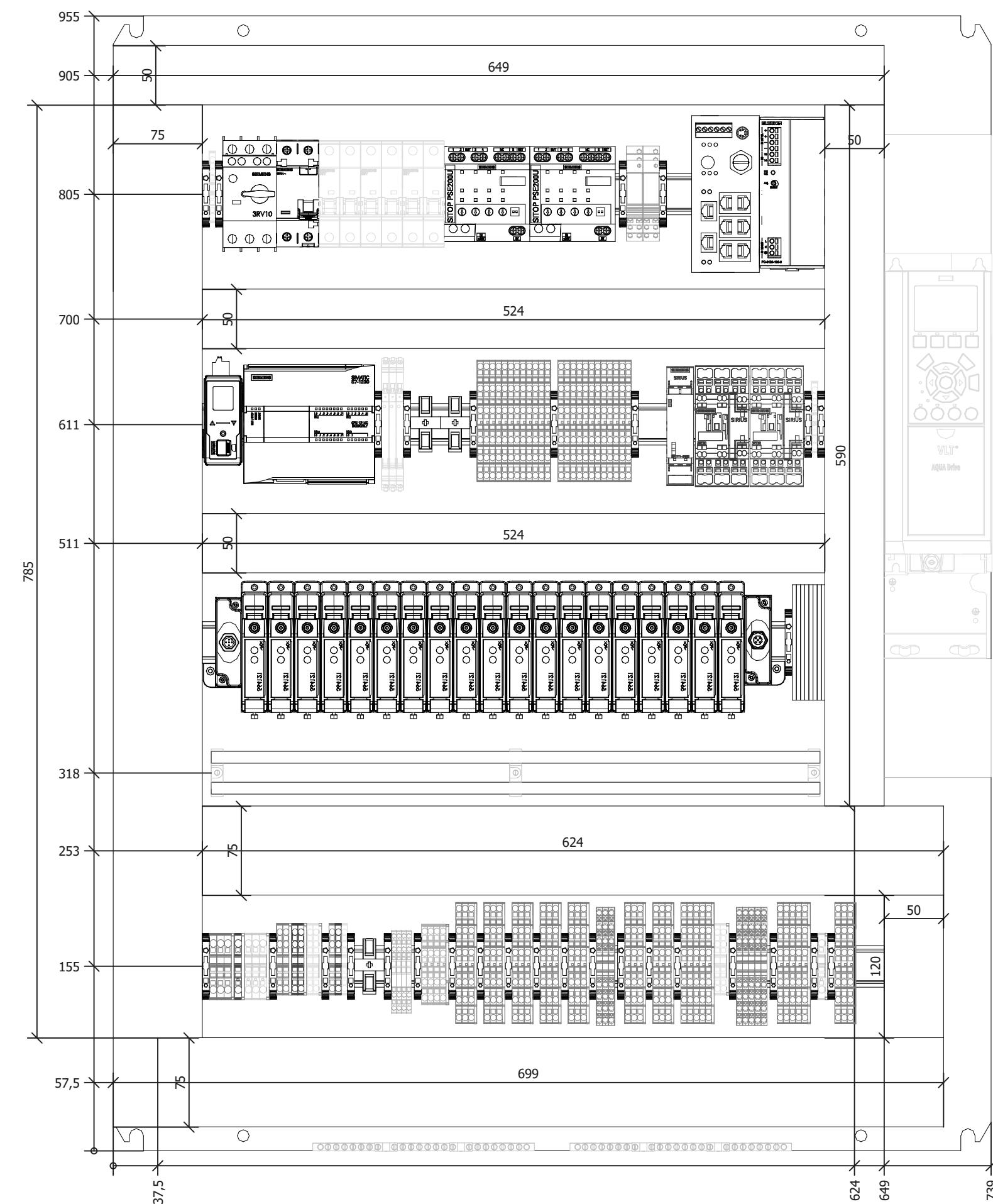
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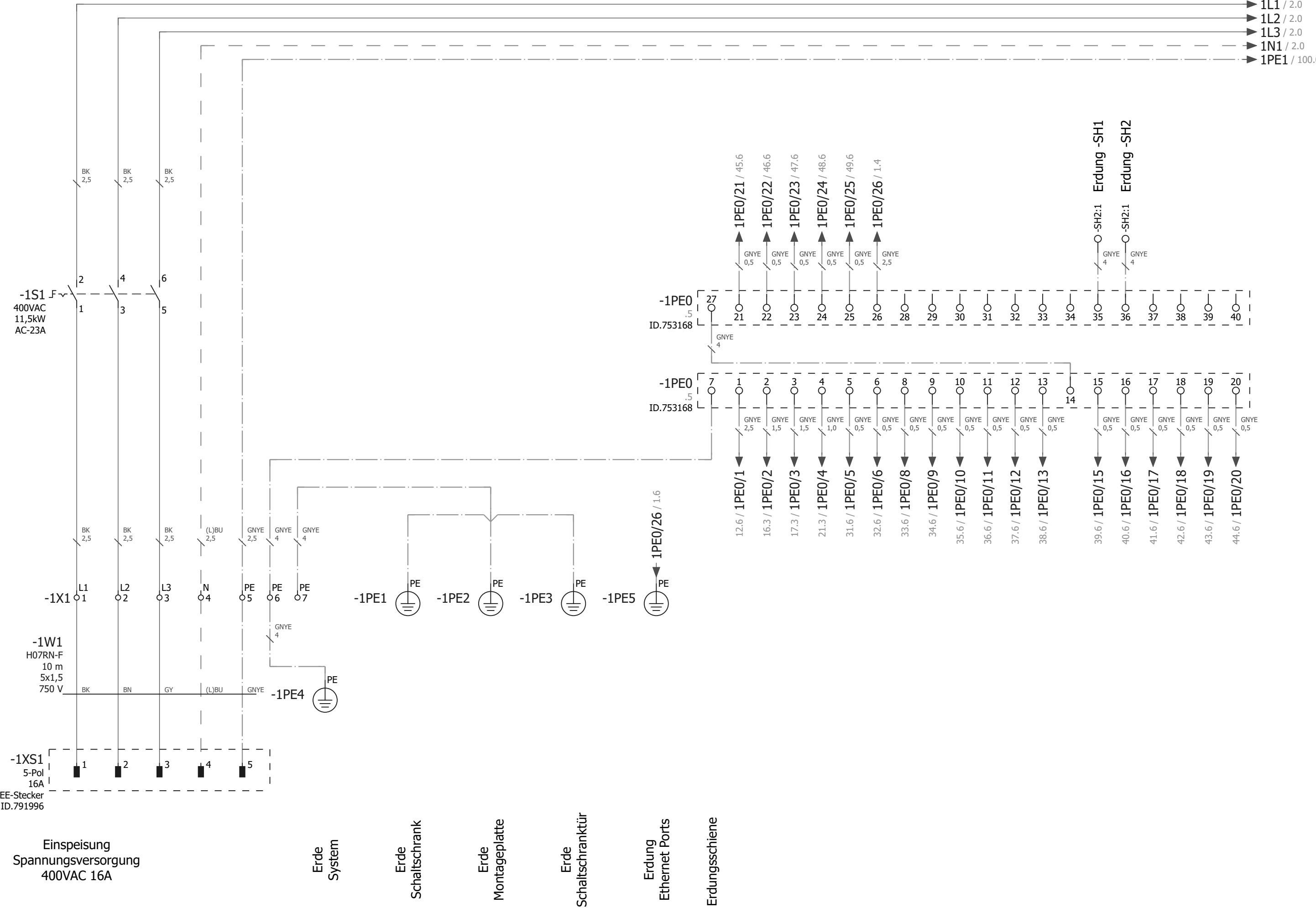
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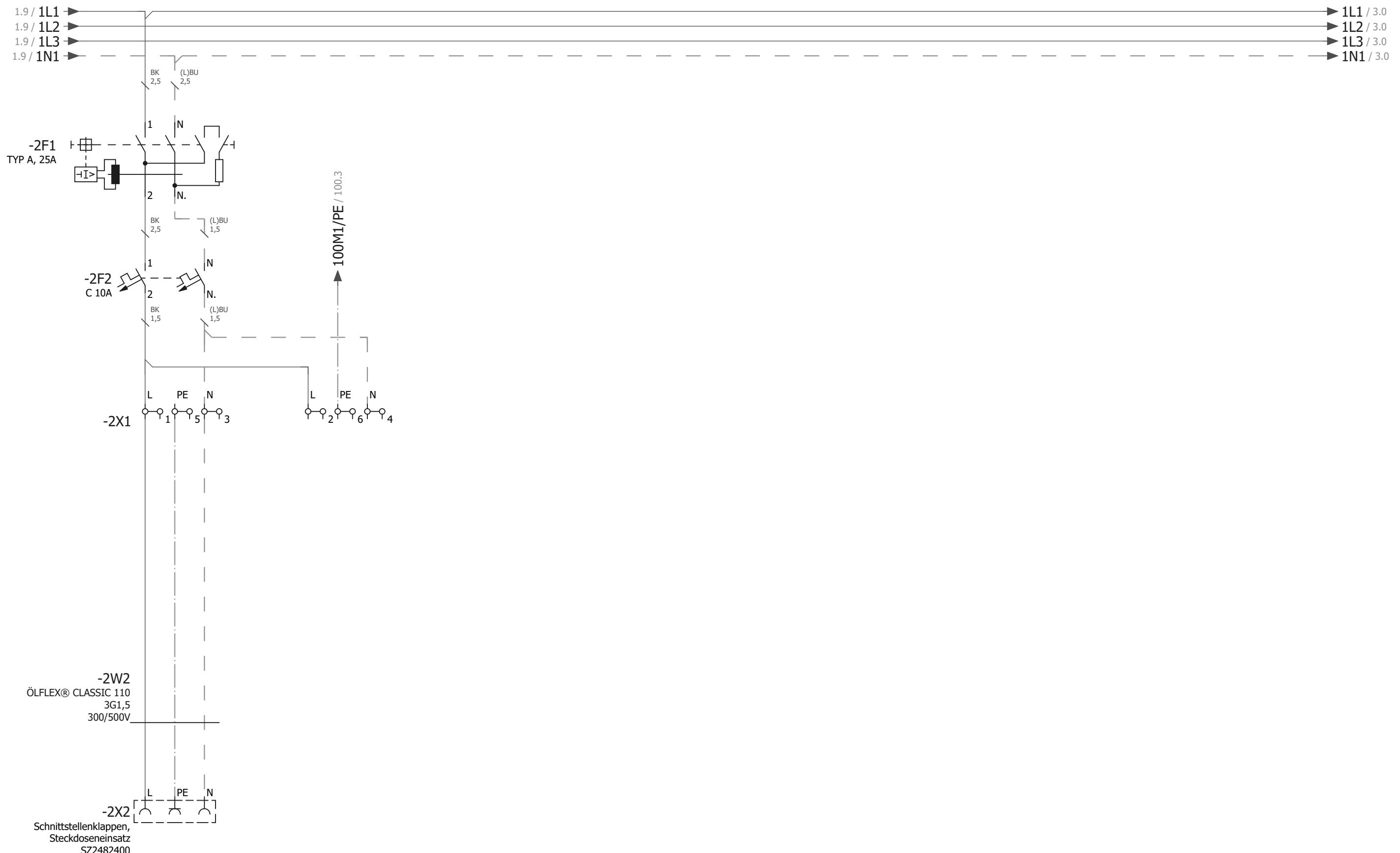
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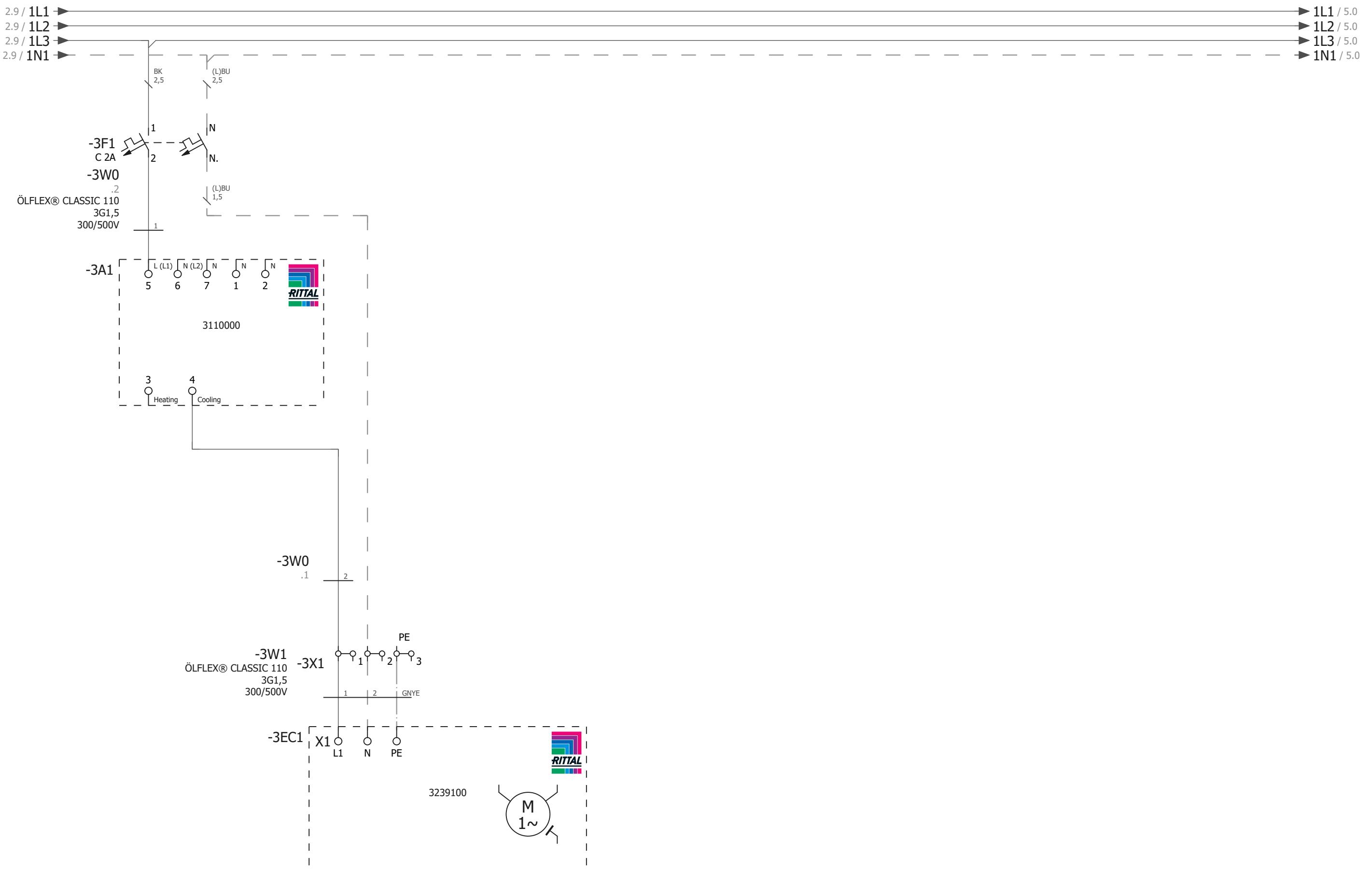


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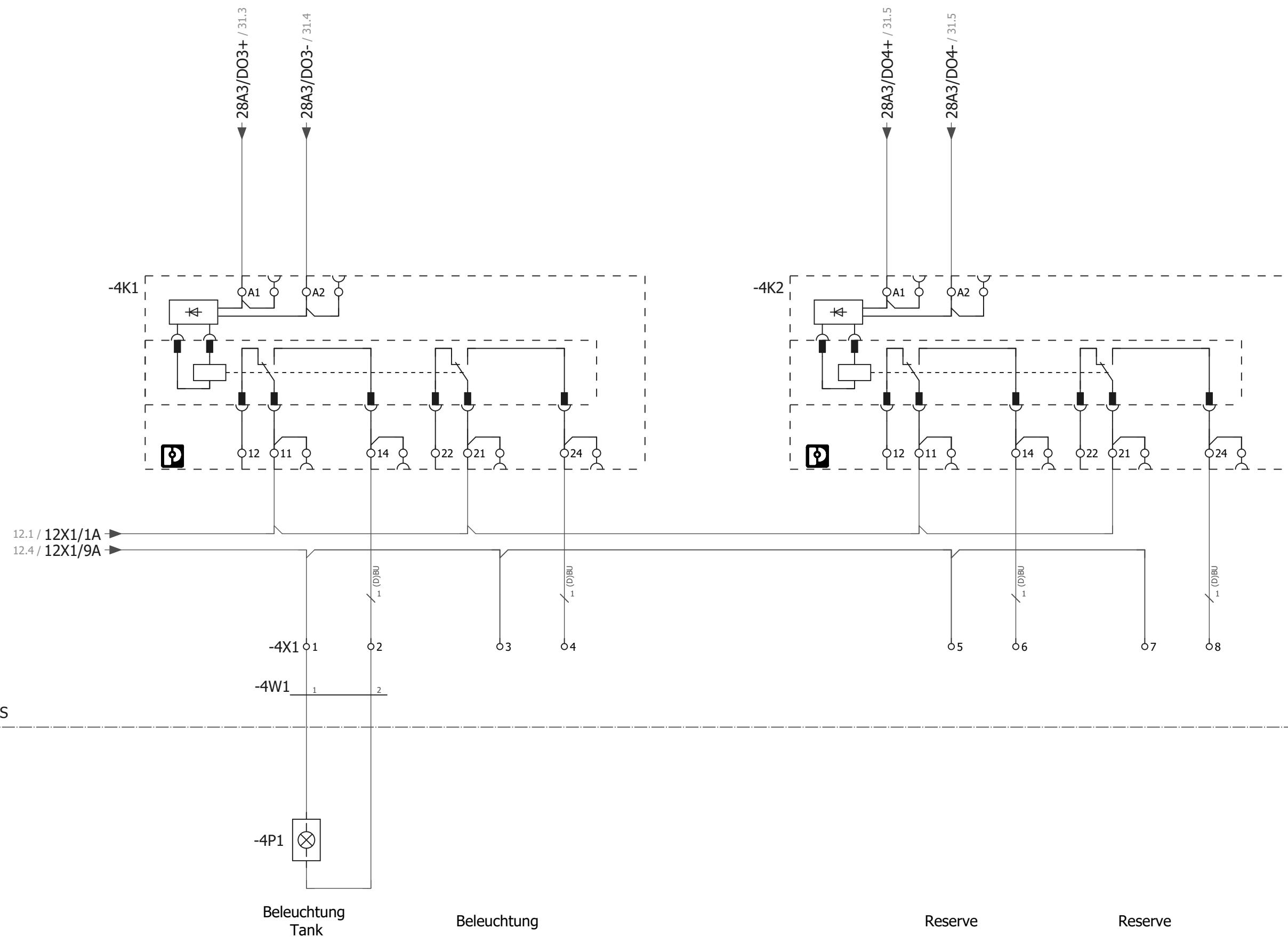
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24V DC Versorgung

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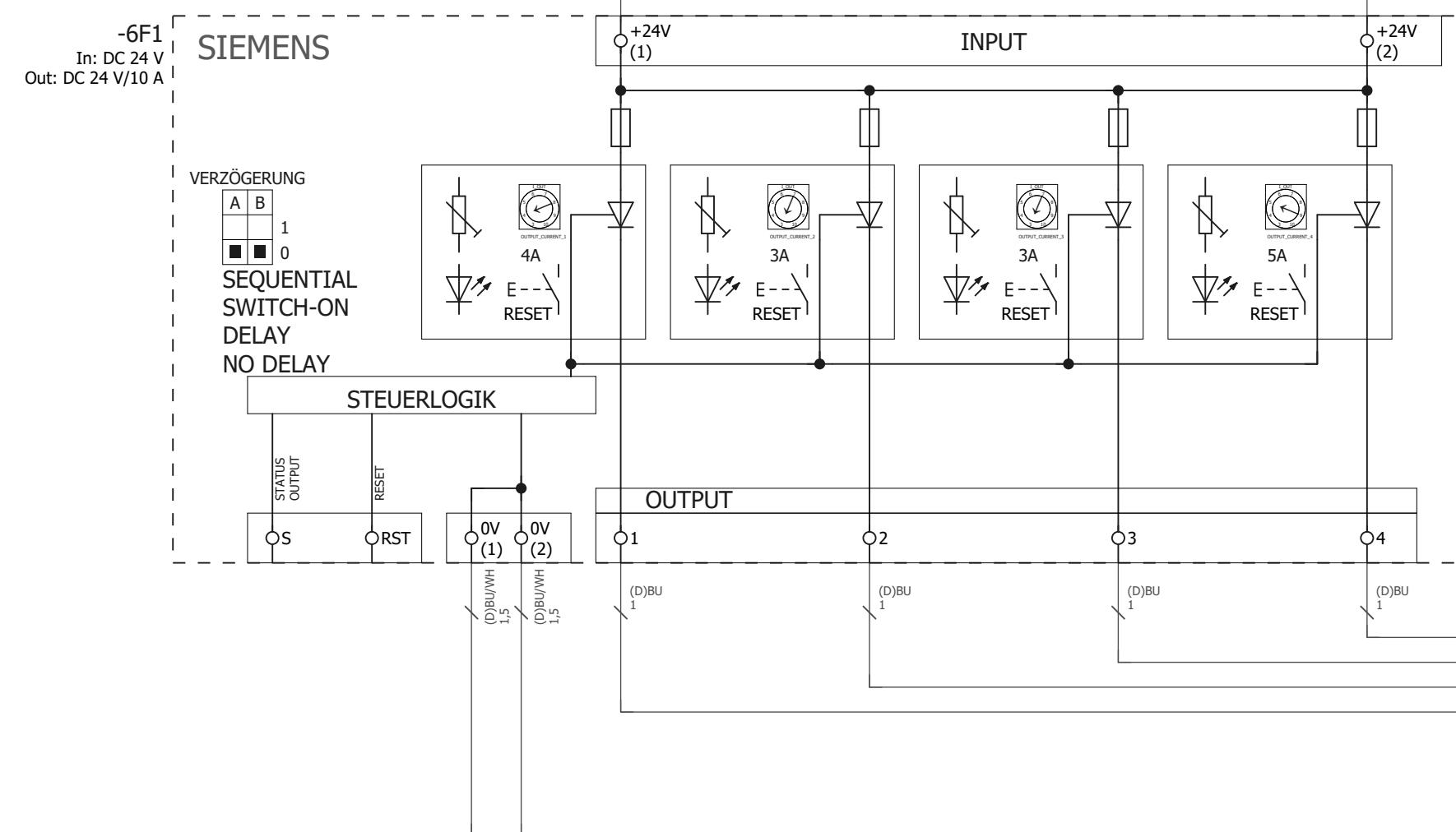


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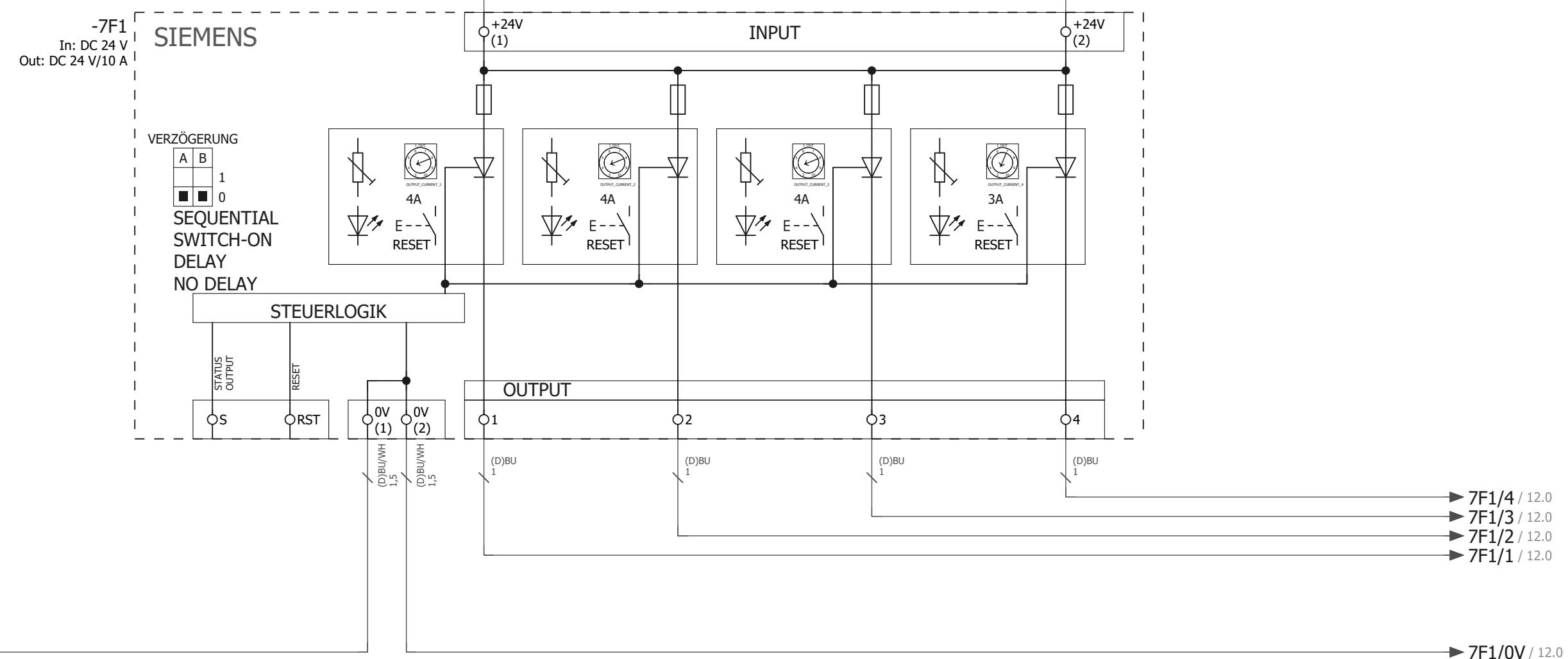
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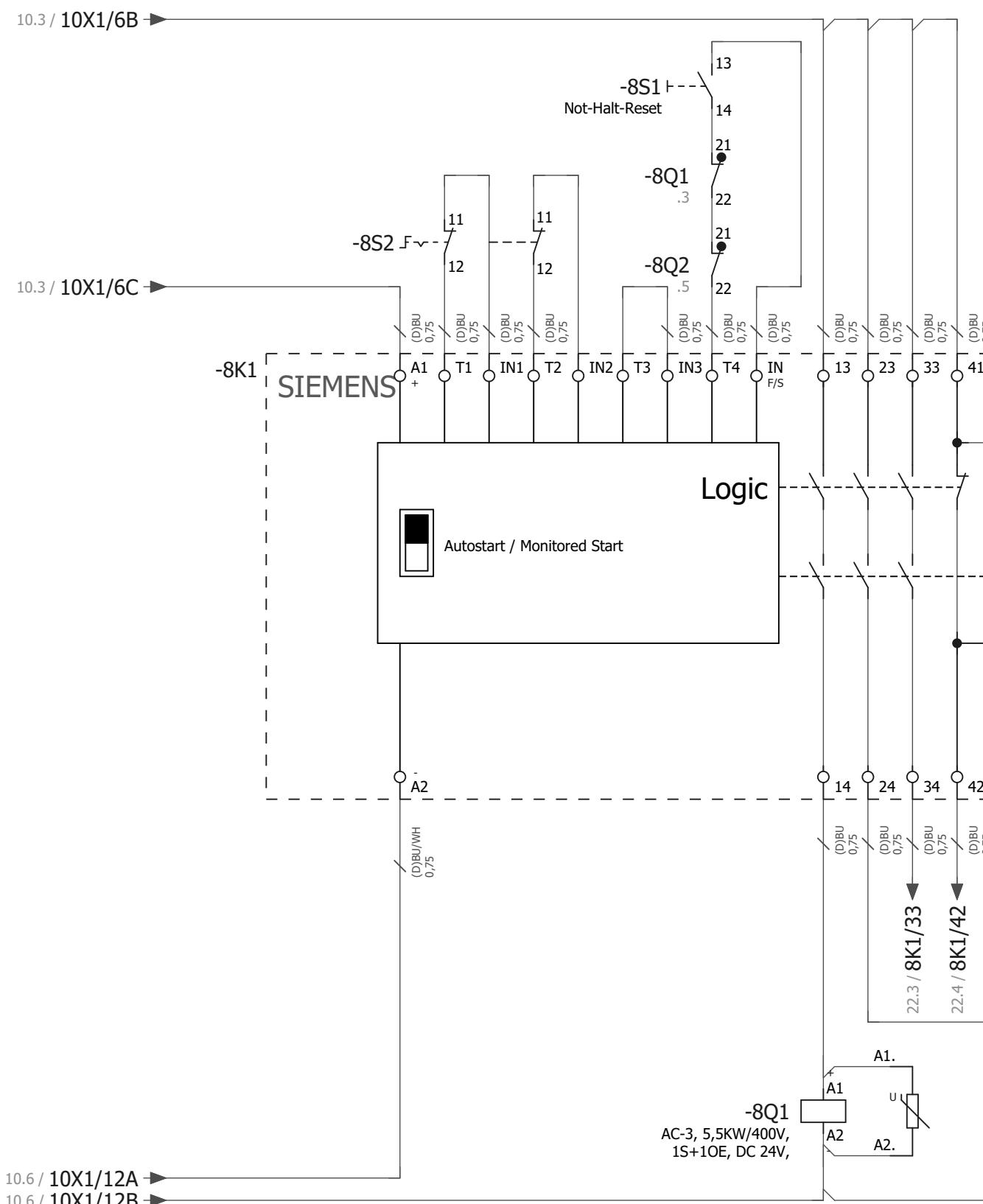
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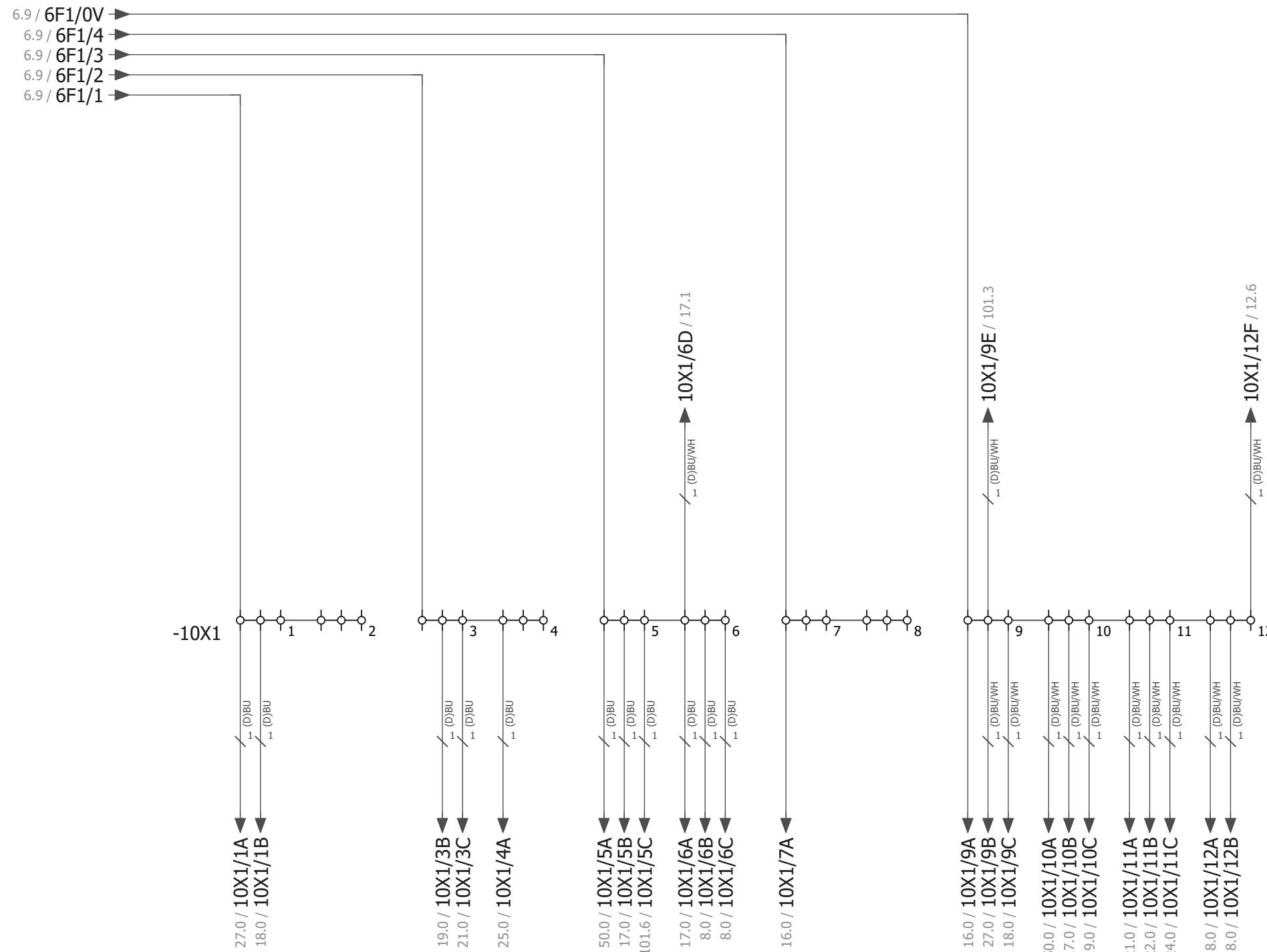
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Spannungsversorgung
BÜS Spannungsversorgung
SPS Spannungsversorgung
Allgemein Spannungsversorgung
Panel PC

GND
Allgemein

8

Status

In Prüfung

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Spannungsversorgung
Beleuchtung / RelaisSpannungsversorgung
externe VentileSpannungsversorgung
externe Sensoren

Reserve

GND
Allgemein

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Revised by	MMT
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SY07CS
Versuchsstand Laborbehälter

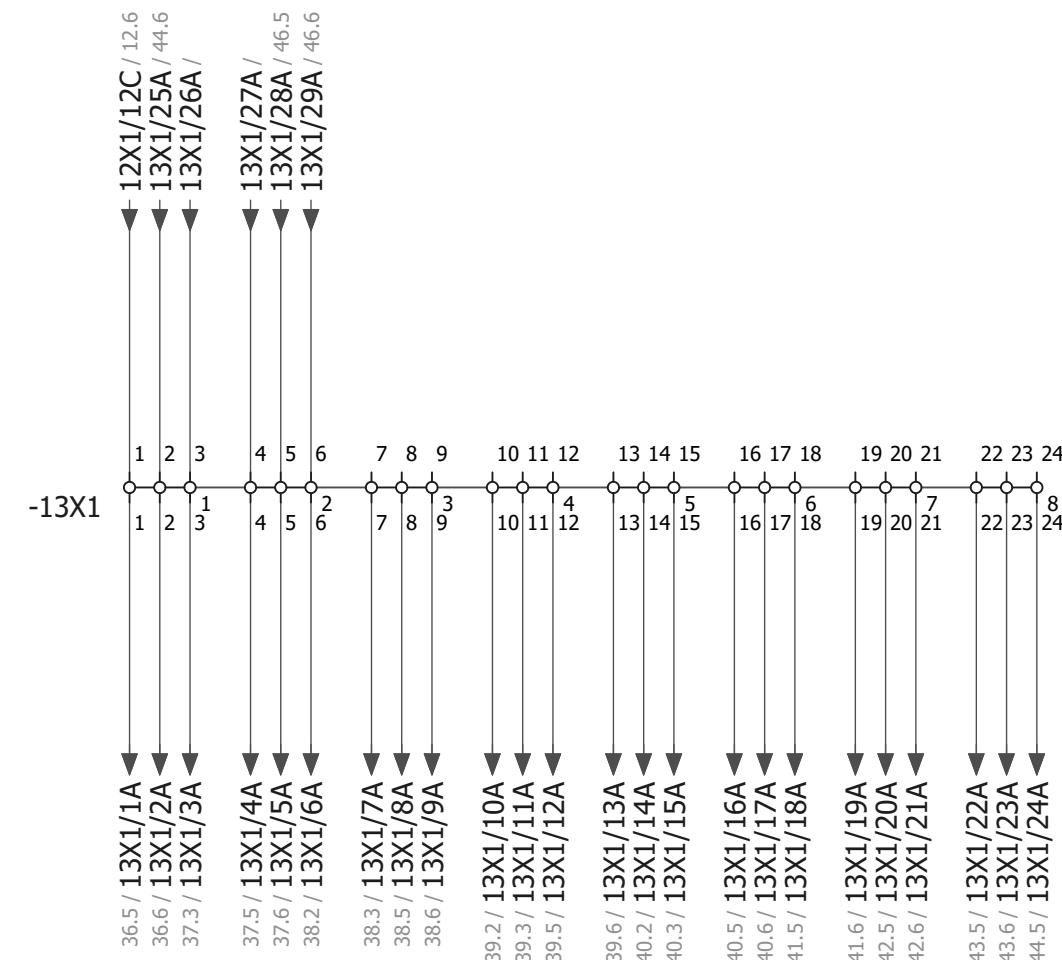
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24V DC Verteilung



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Dok ID Inno: 9560016087
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GND
ME24 Karten

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Date	22.03.2018
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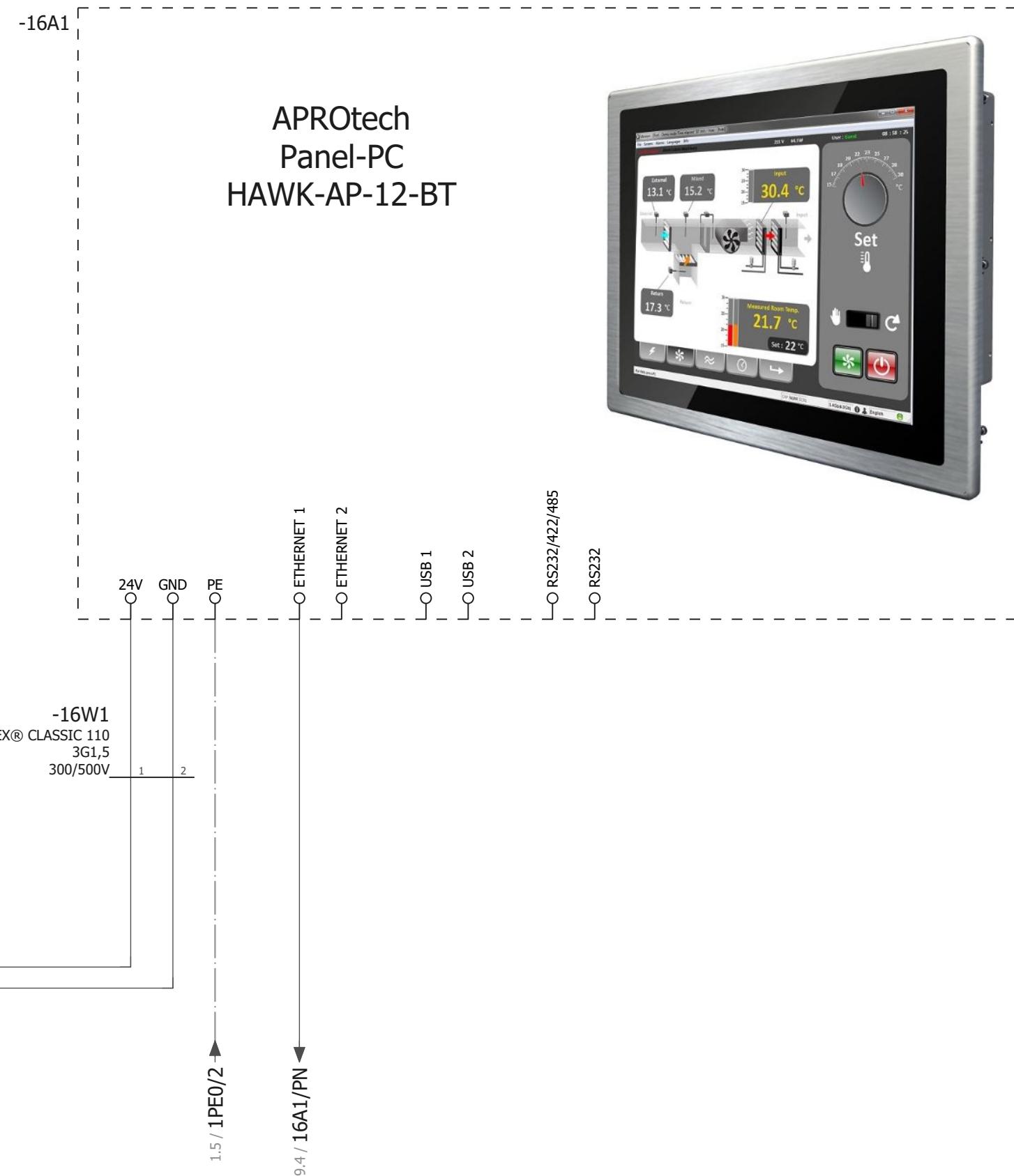
GND Versorgung ME24

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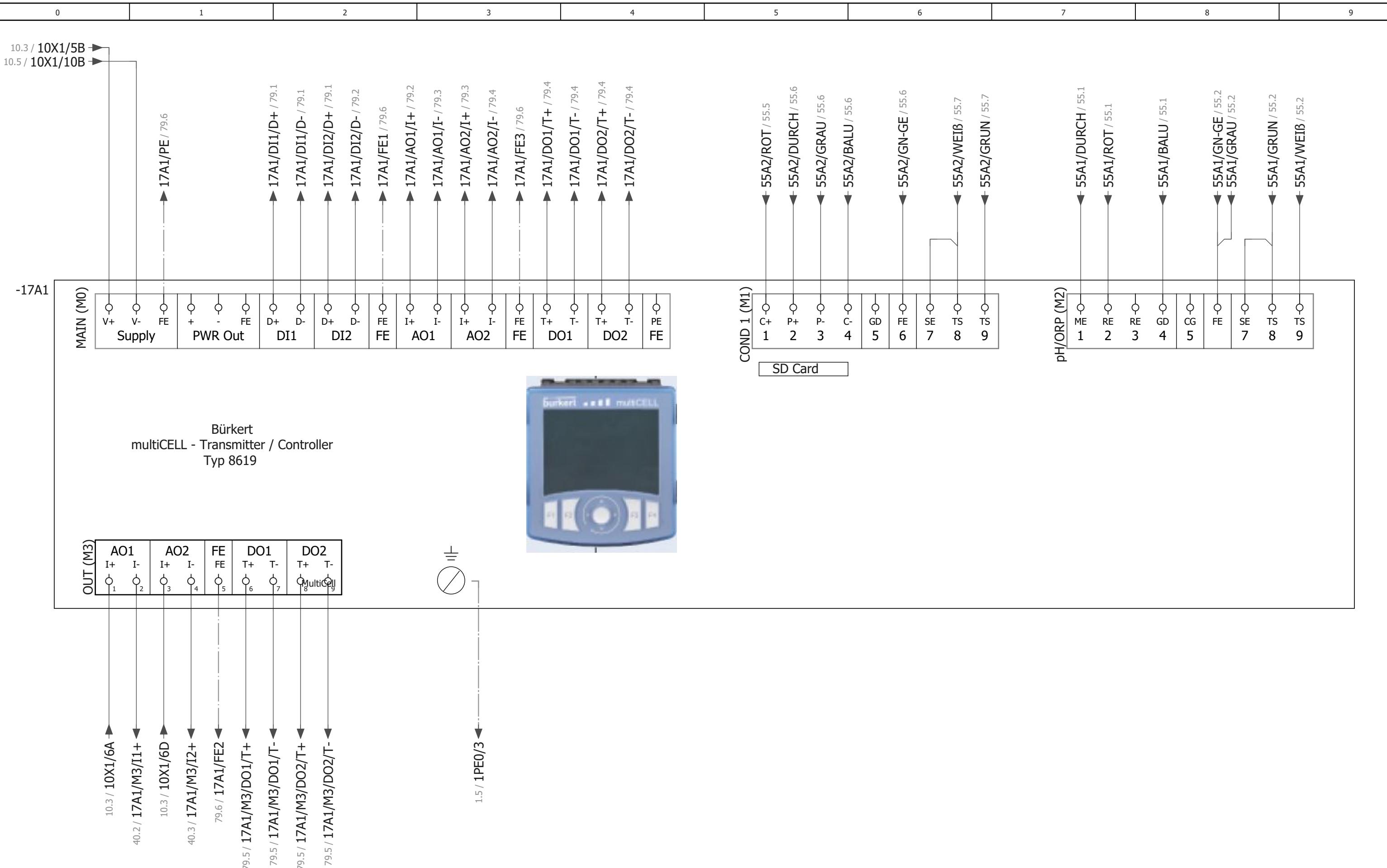
APROtech Panel-PC HAWK-AP-12-BT

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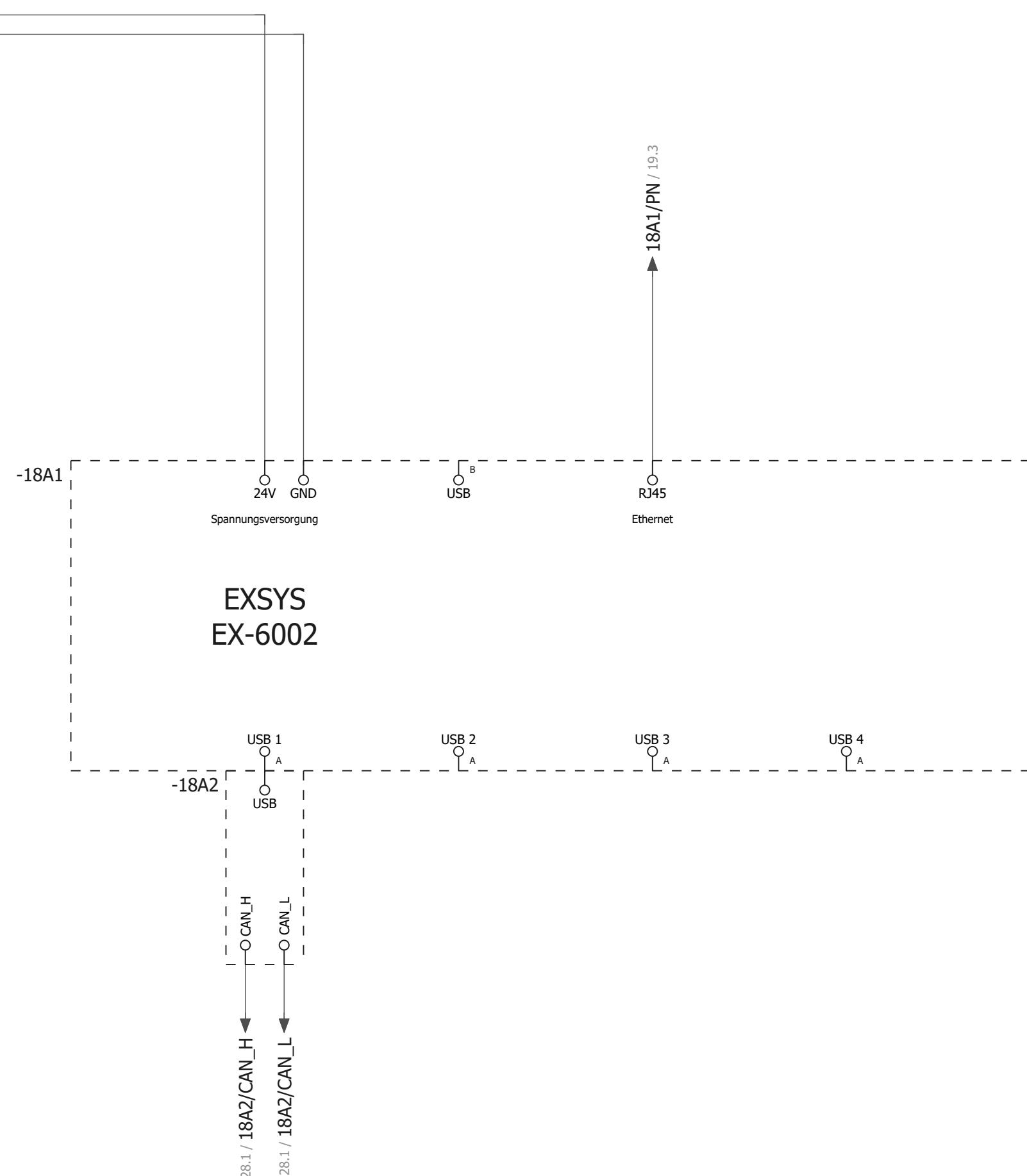


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8619 - PH&COND - PANEL 1/4 DIN - DC

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Ethernet 1Gigabit zu 4 x USB 2.0

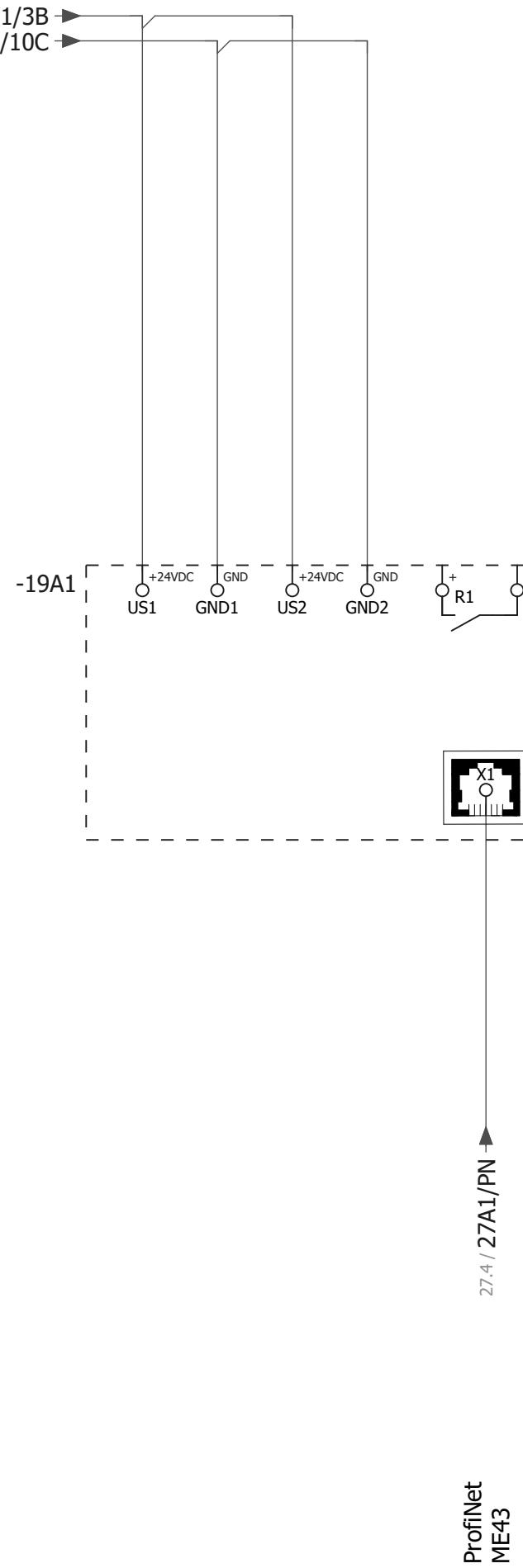
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27.4 / 27A1/PN

20.2 / 20A1/PN

102.5 / 60U1/PN

18.4 / 18A1/PN

16.3 / 16A1/PN

ProfiNet
ME43

ProfiNet
SPS

ProfiNet
Frequenzumrichter

ProfiNet
EXSYS EX-6002

ProfiNet
APROTECH Panel-PC
HAWK-AP-12-BT

ProfiNet 1
Schaltschrank

ProfiNet 2
Schaltschrank

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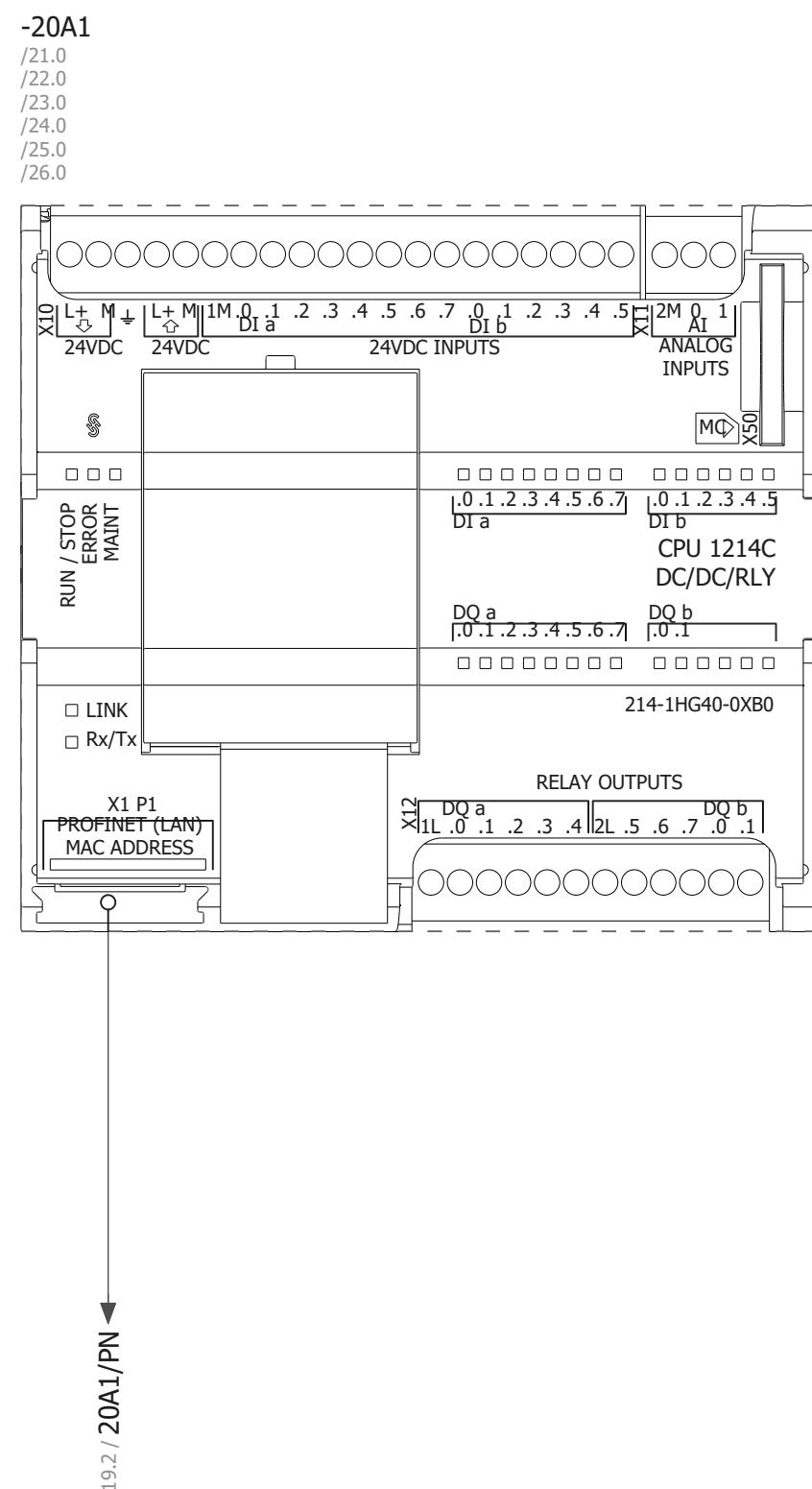
Ethernet Switch

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FLUID CONTROL SYSTEMS

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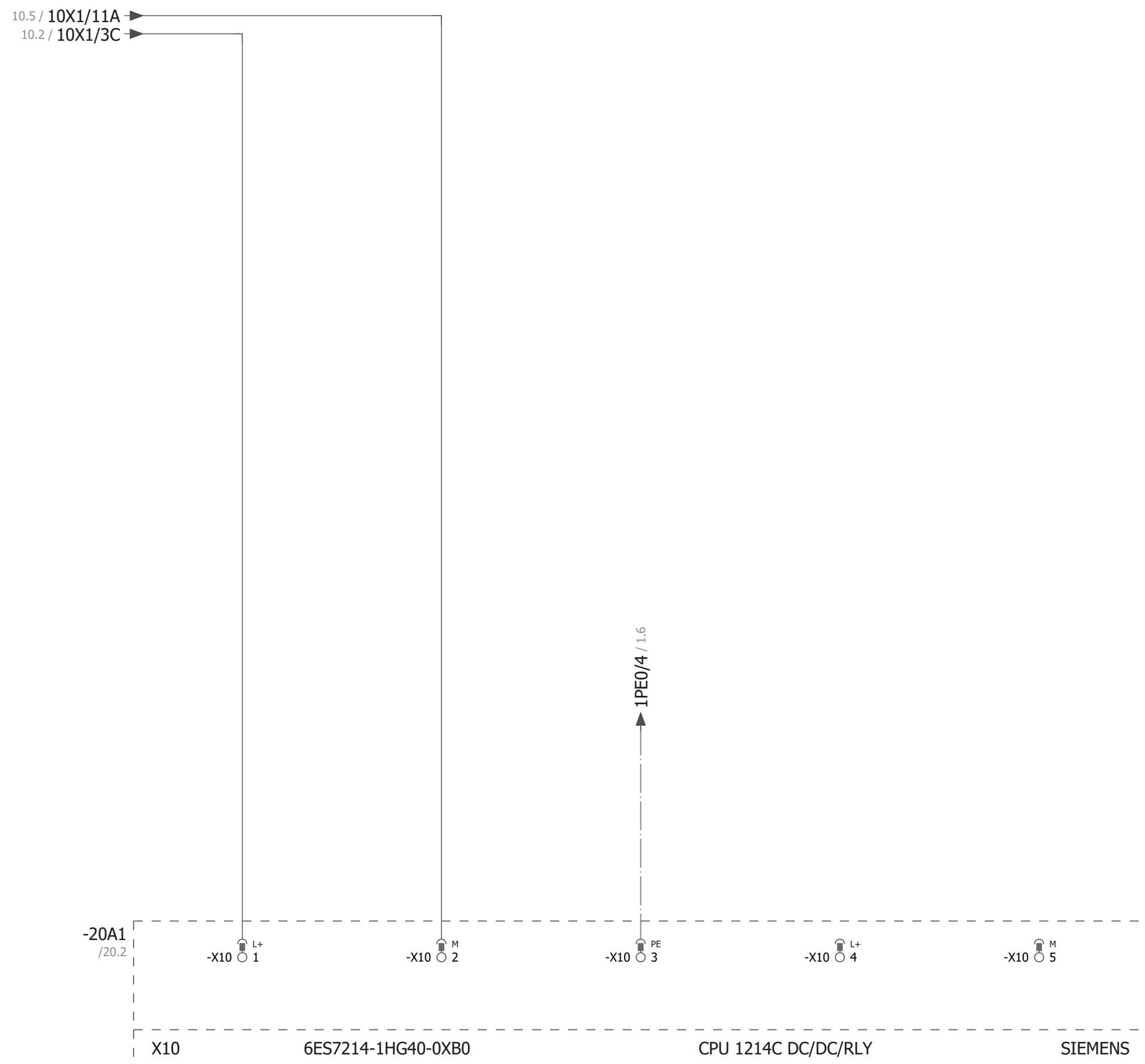


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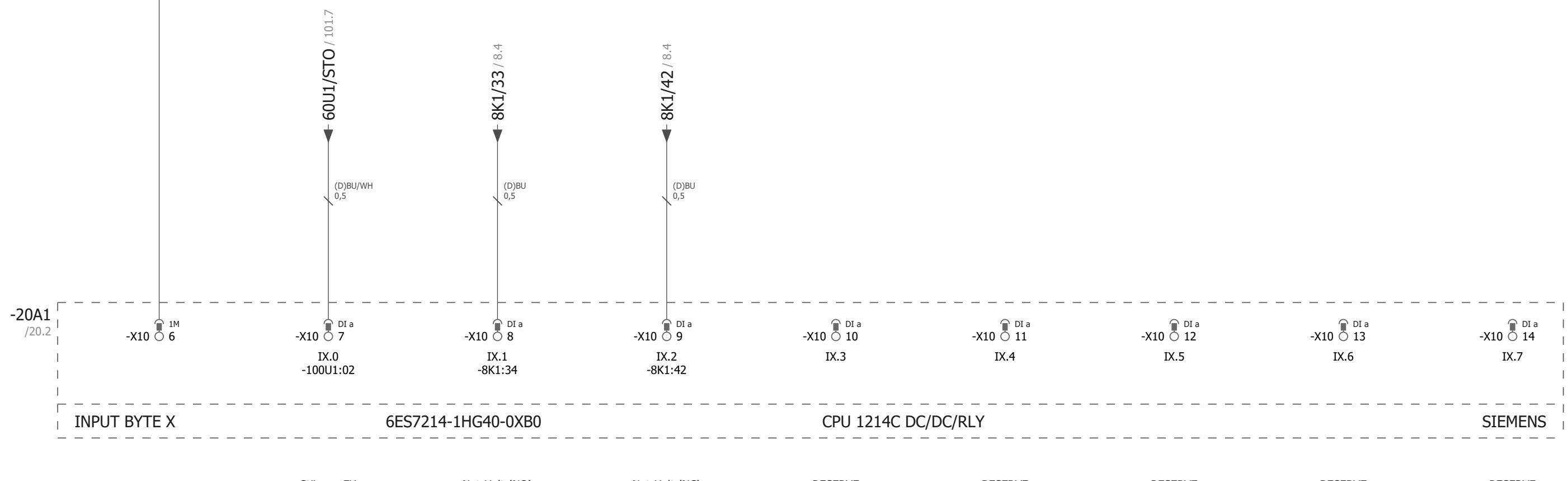
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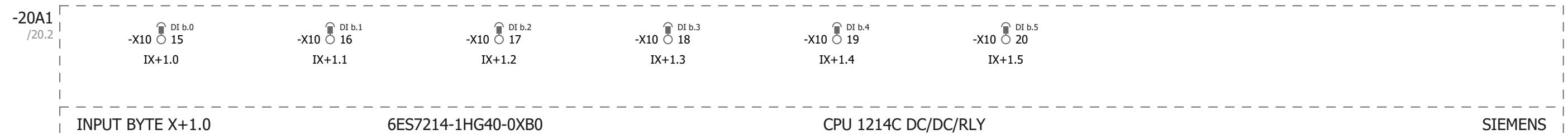
10.5 / 10X1/11B →



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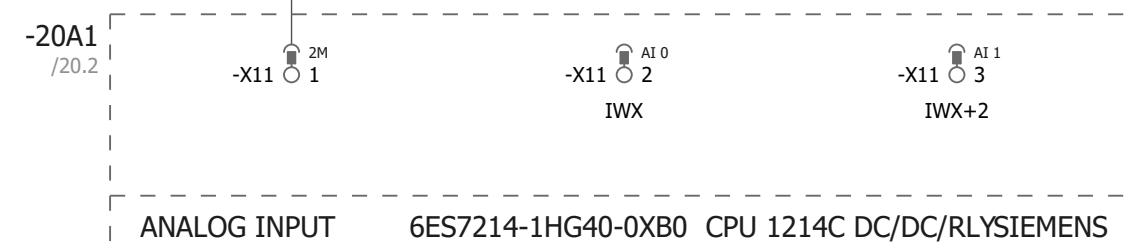
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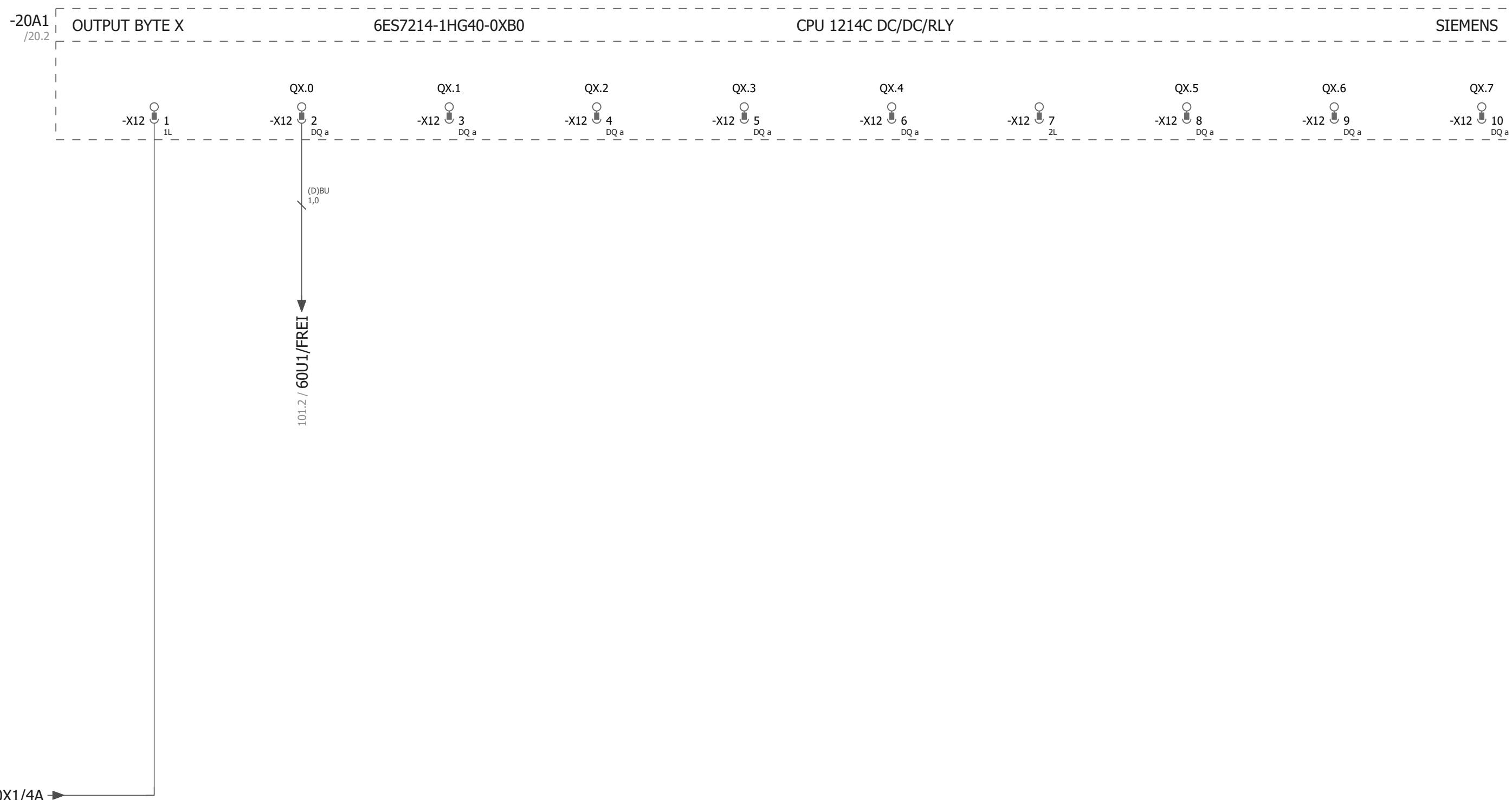


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Freigabe Frequenzumrichter RESERVE RESERVE RESERVE RESERVE RESERVE RESERVE



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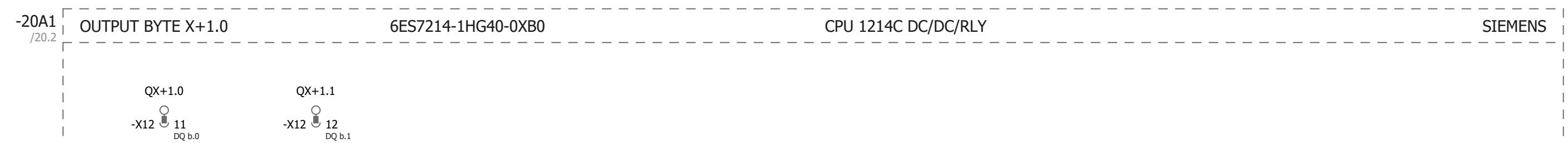


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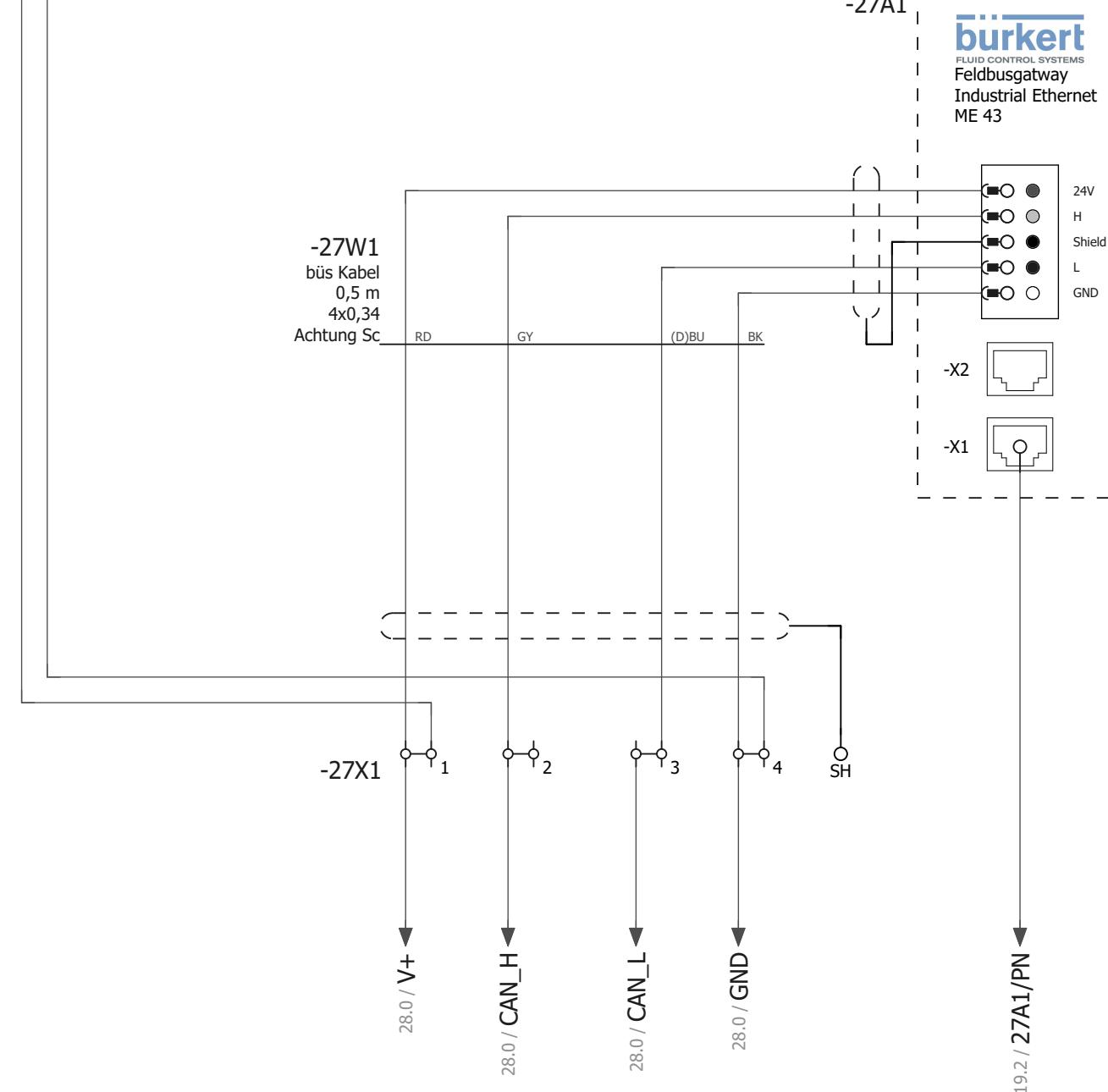
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10.5 / 10X1/9B
10.1 / 10X1/1A



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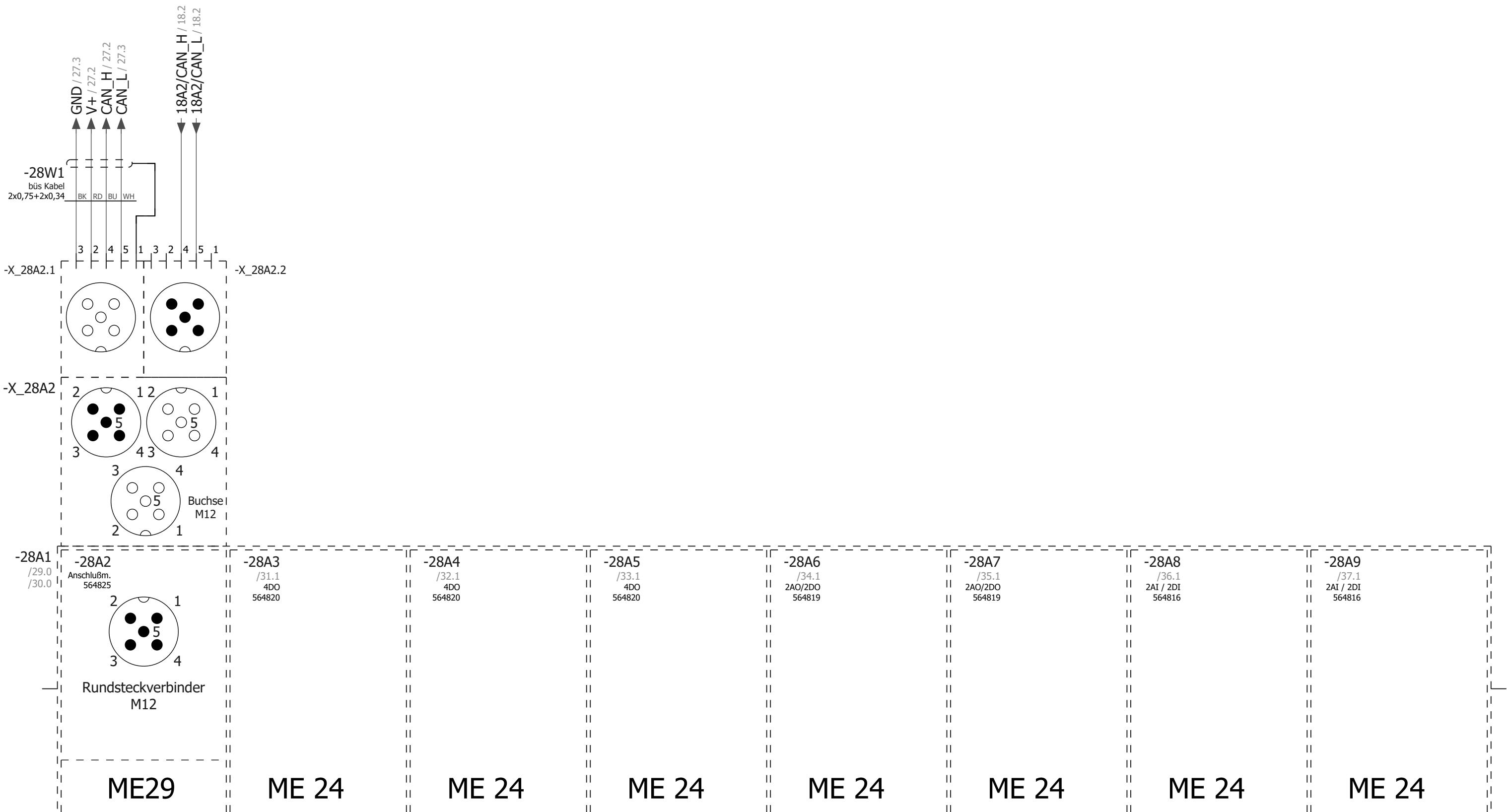
Büs ME43

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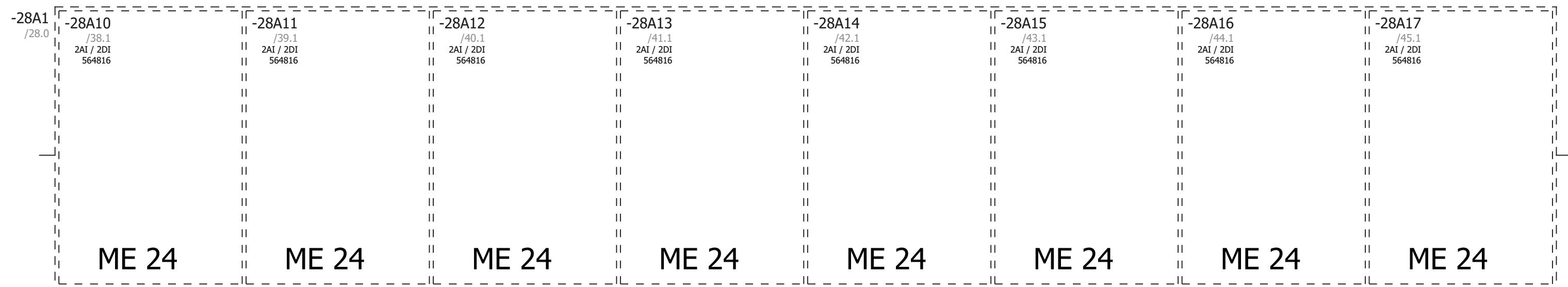


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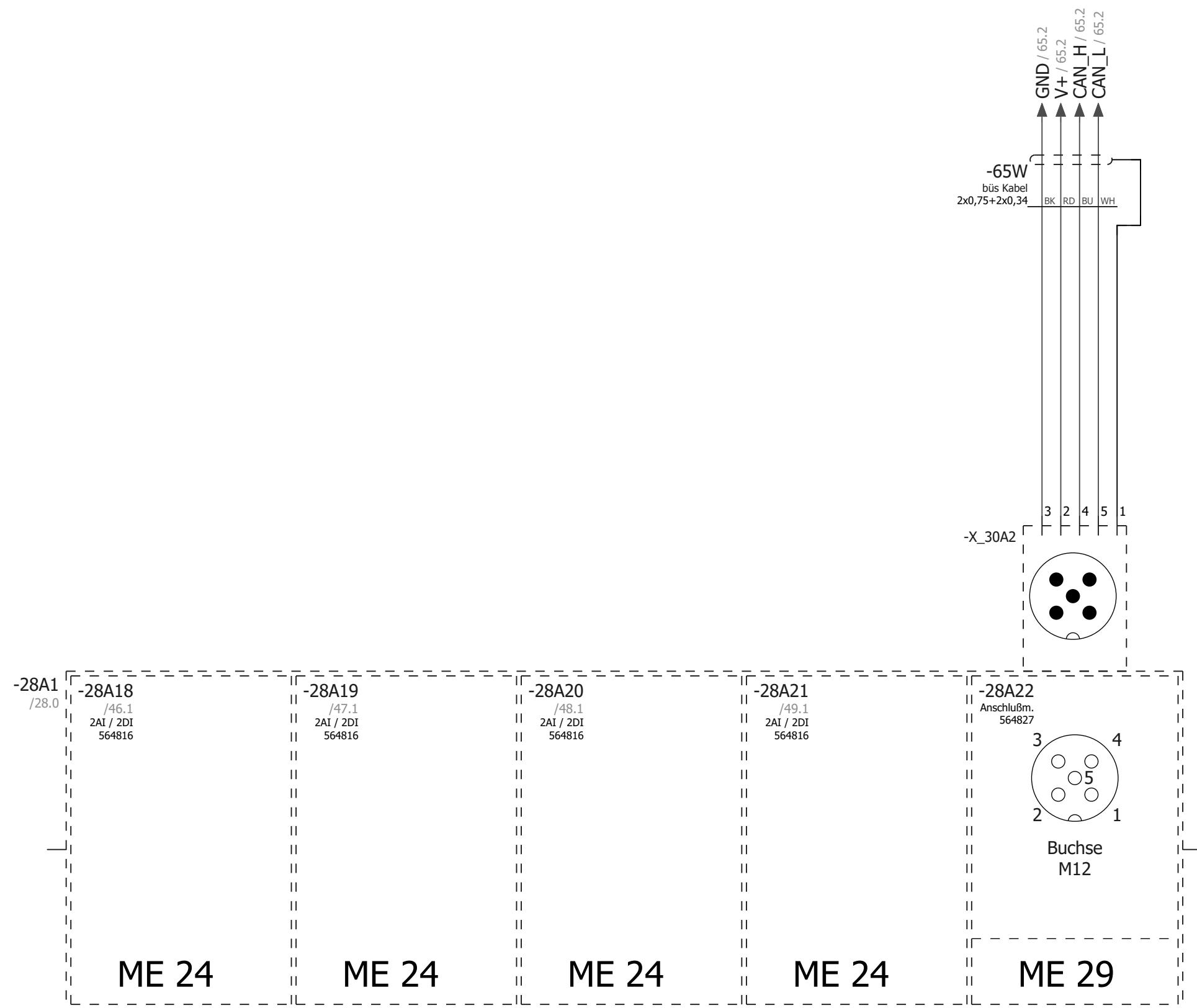
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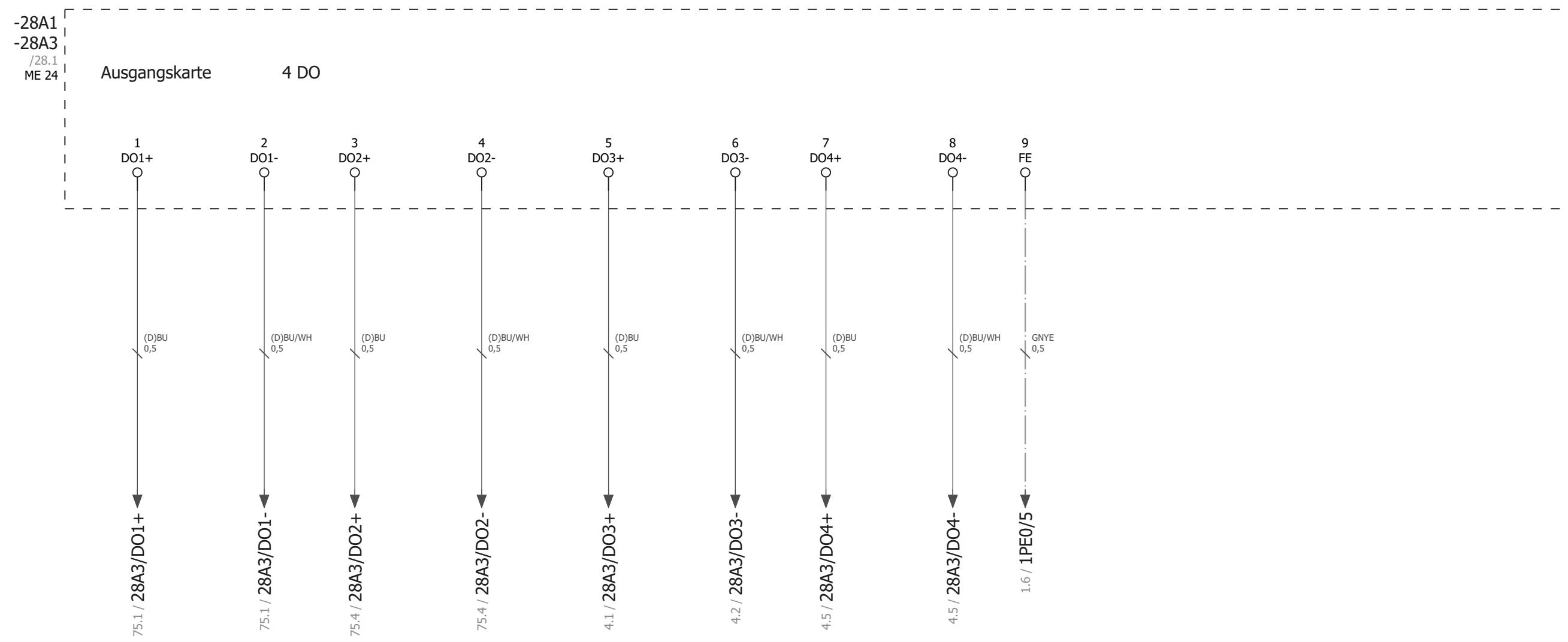


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Venile Typ 6014
V13Venile Typ 6014
V15Relais
Beleuchtung 1Relais
Beleuchtung 2

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Date	22.03.2018
Version	-
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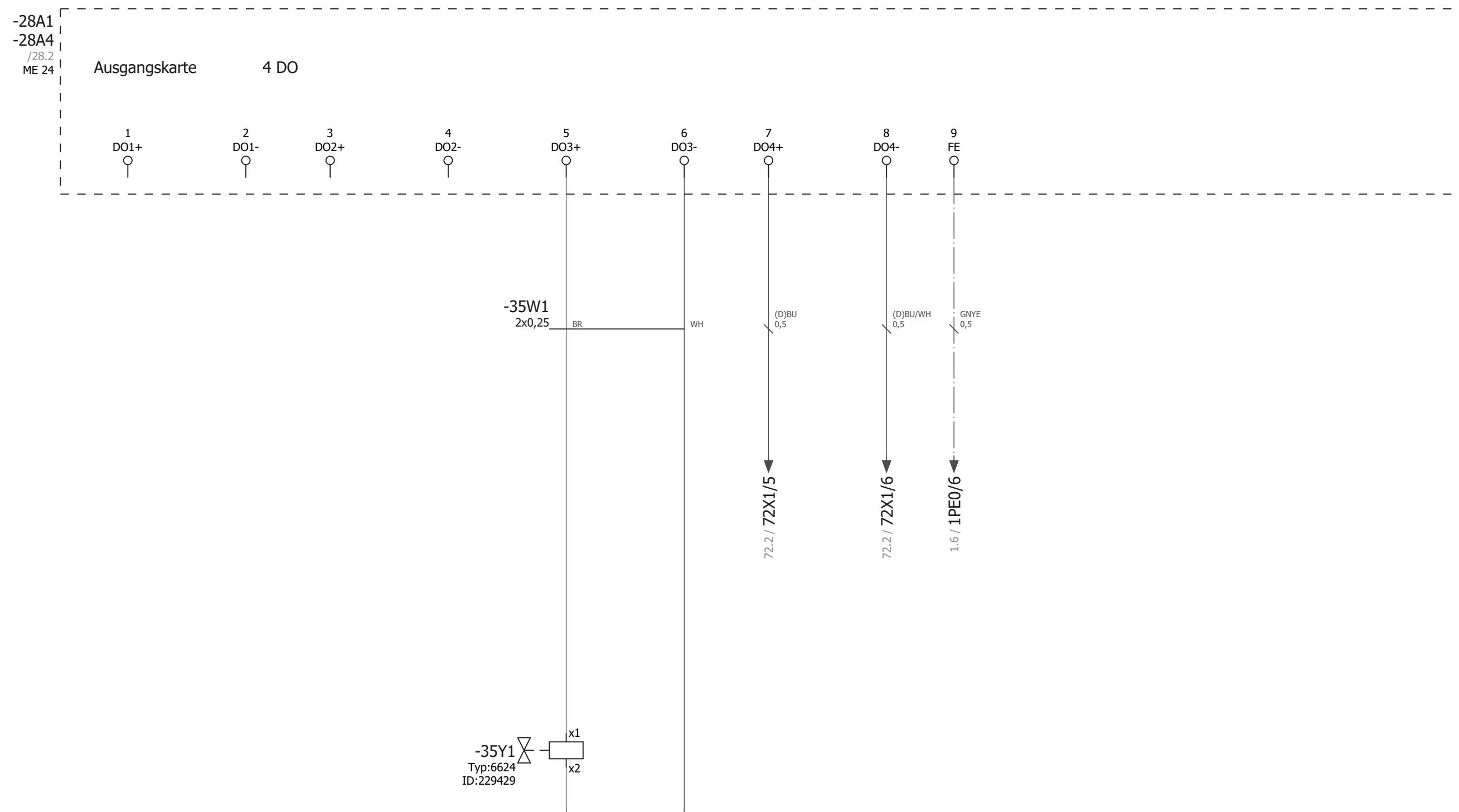
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ME24-4DO/f(x)



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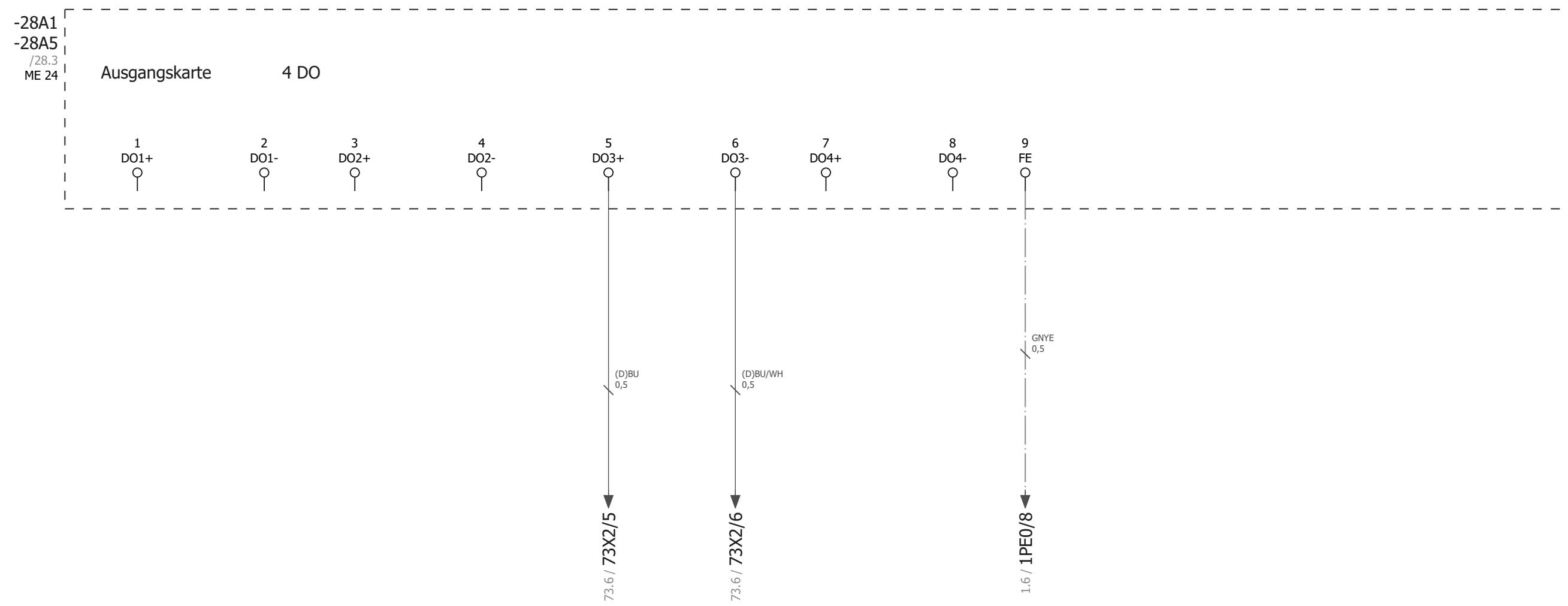
Multifunktions- Block
Typ 2034;
8697 V6 - V7

Status	In Prüfung
Date	22.03.2018
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Multifunktions- Block
Typ 2036; V8 - V9 - V10
Ventil 2 / Antrieb 2

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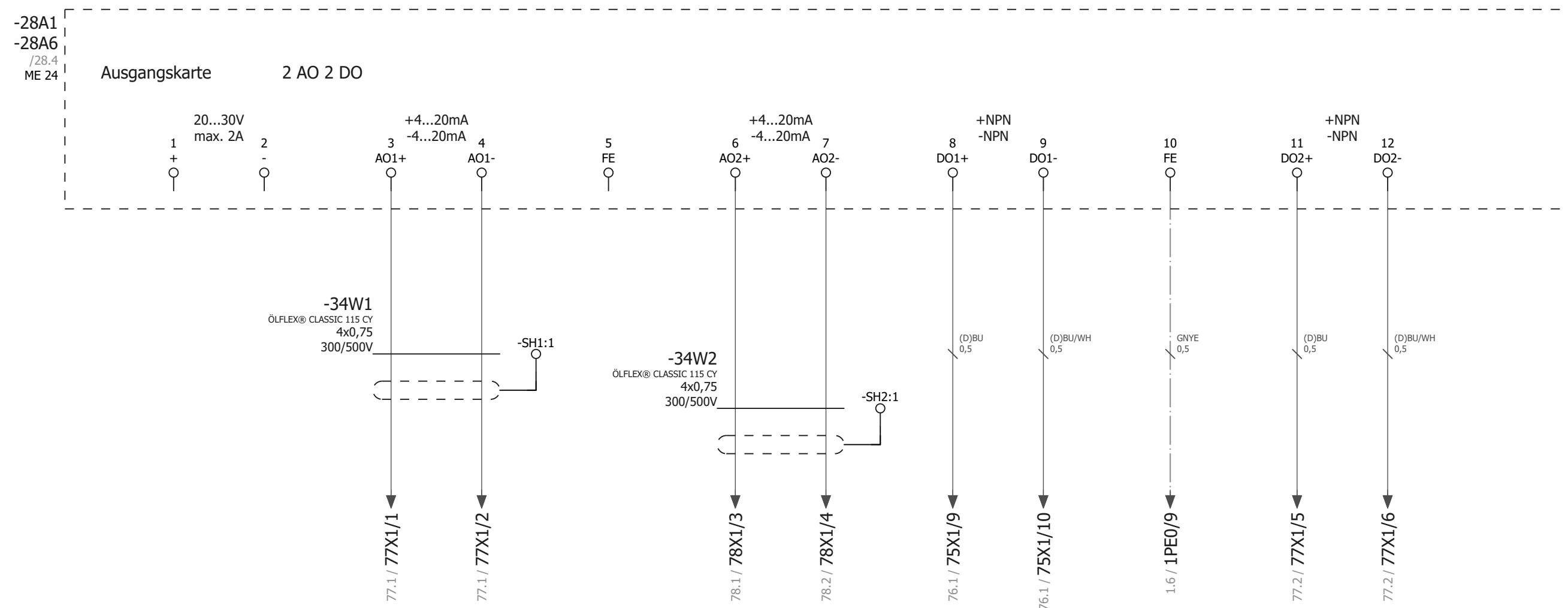
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Venile Typ 2301 / 2006;
V17 Optional
Sollwert

Venile Typ 2301 / 2006;
V18 Optional
Sollwert

Venile Typ 6624;
V16 Optional

Venile Typ 2301 / 2006;
V17 Optional

Status	In Prüfung
Date	22.03.2018
Version	-
Approved by	
Revised by	TMU
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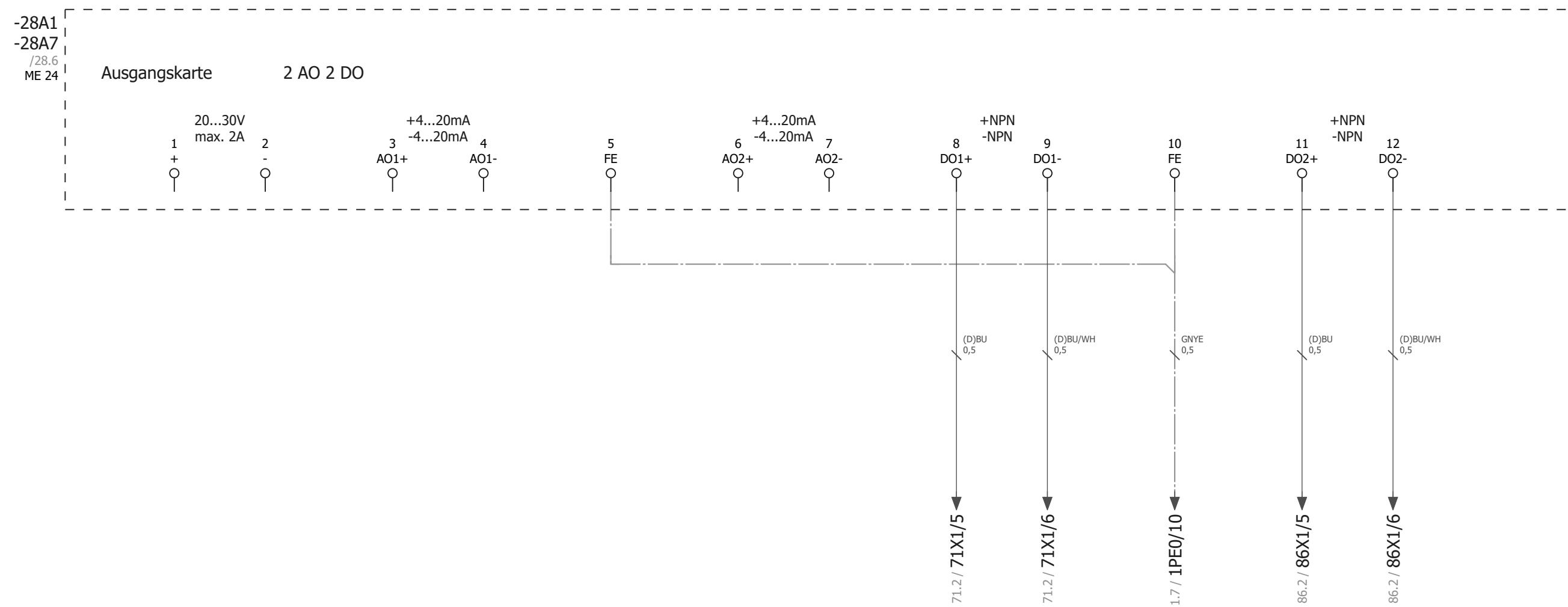
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ME24-2AO/2DO/f(x)



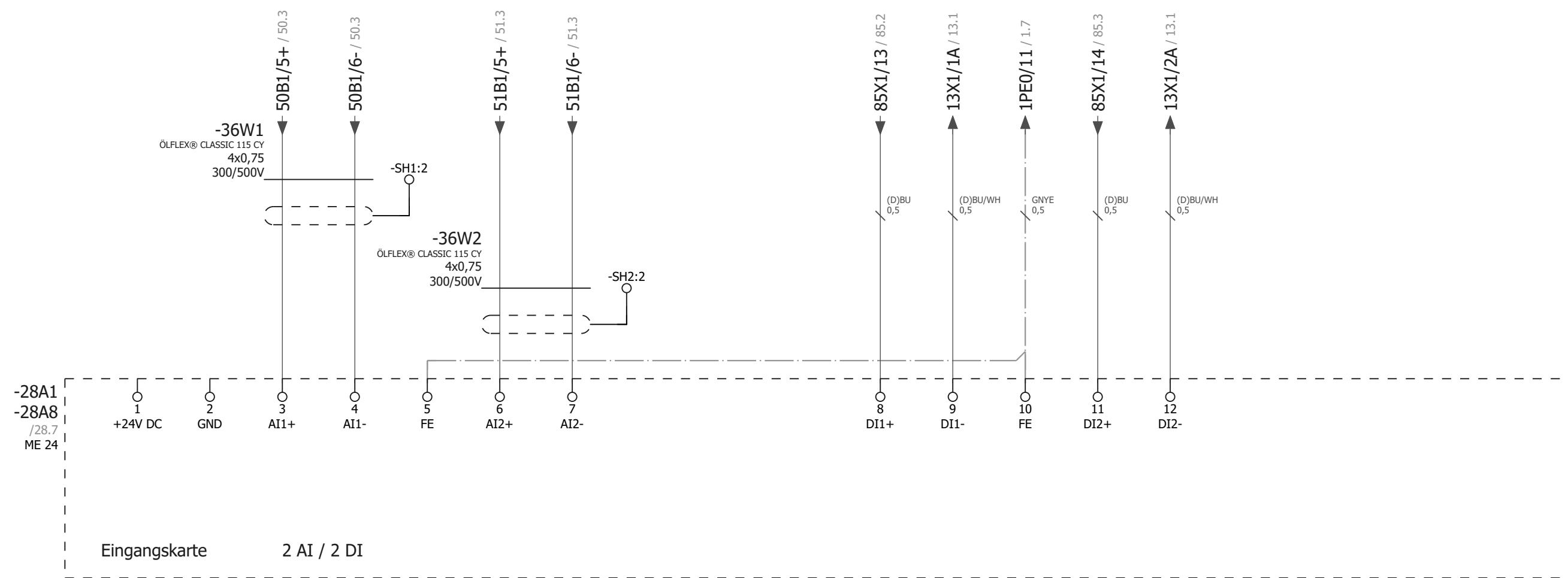
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T-Ventil Typ 2104;
8691 V3

Ventil Typ 8697

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Approved by					Dok ID PDF: 9560016088 Page 35
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PT100
I-7
783715

PT100
I-9
783715

Schwinggabel 8110
I-10
560253

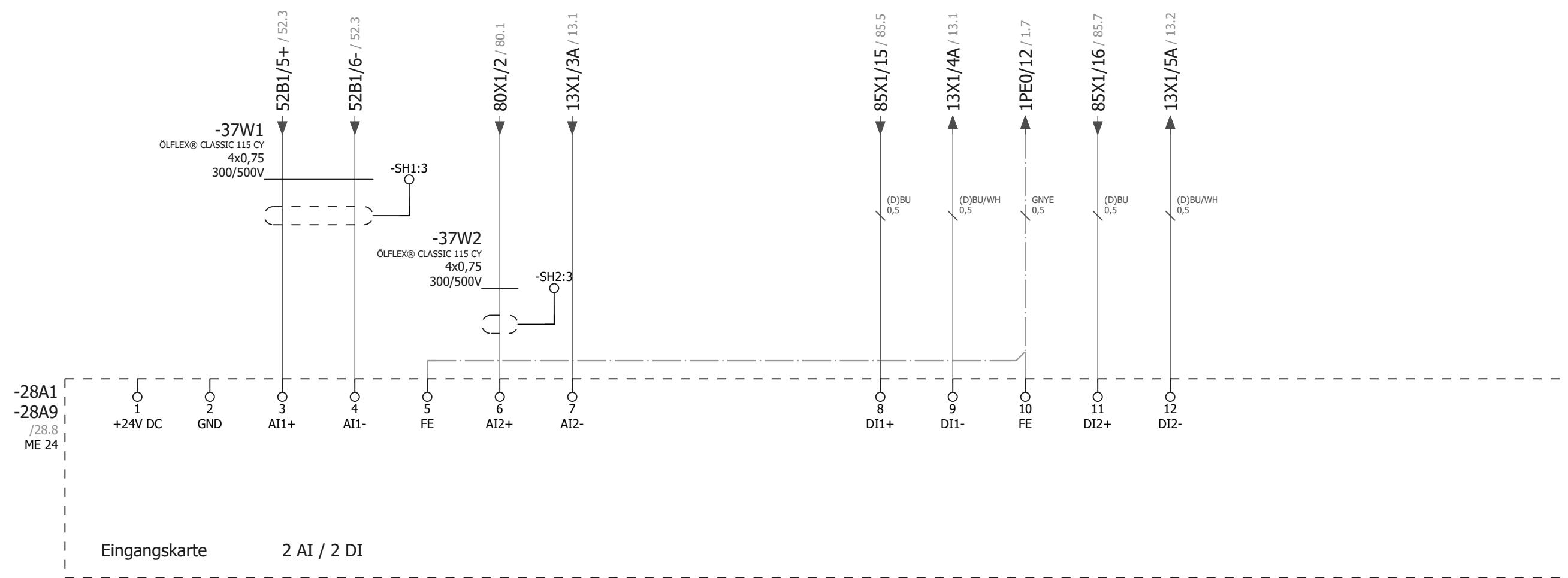
Schwinggabel 8110
I-14
560253

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PT100
I-11
783715

Drucksensor 8323
I-3
552067

Schwinggabel 8110
I-16
560253

Schwinggabel 8110
I-2
560253

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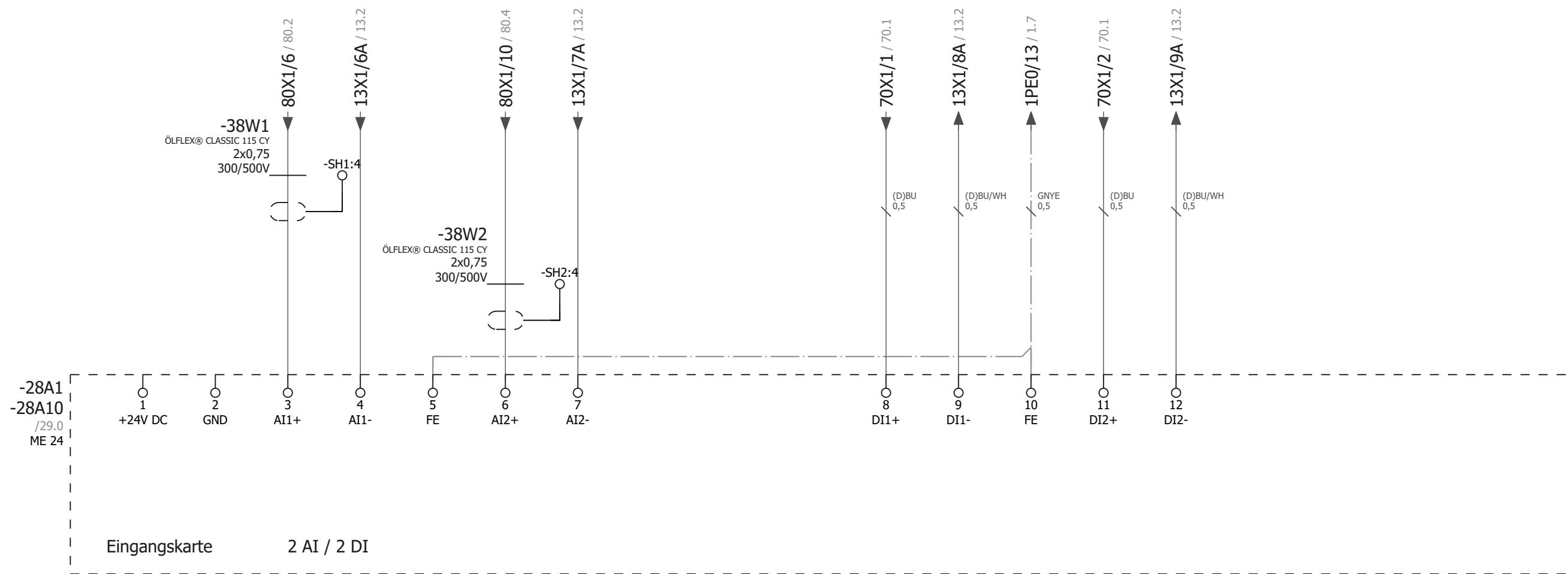
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Drucksensor 8323
I-8
551678

Drucksensor 8323
I-15
551678

Robolux TBV
MW56, RV70, DN25,
8686
V1 - Bottom

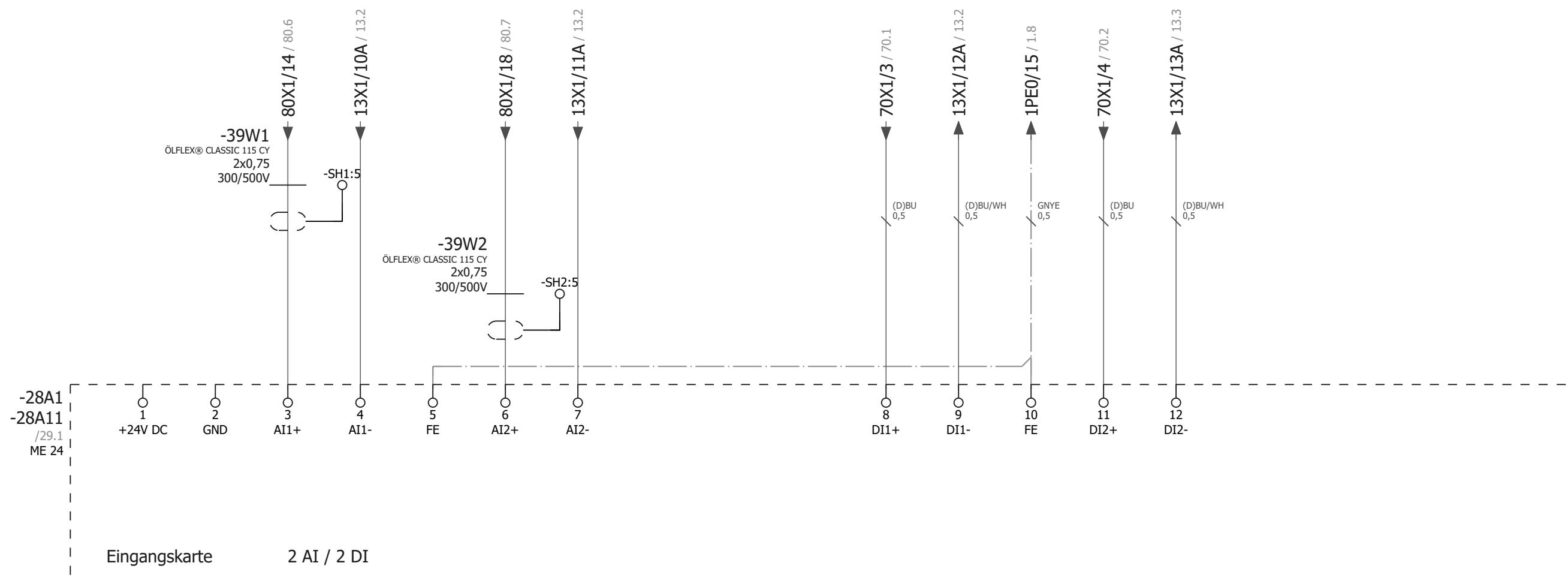
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MW56, RV70, DN25,
8686
V1 - Top

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Drucksensor 8323
I-17
552067

Drucksensor 8323
I-19
417697 Optional

Robolux TBV
MW56, RV70, DN25,
8686
V2 - Bottom

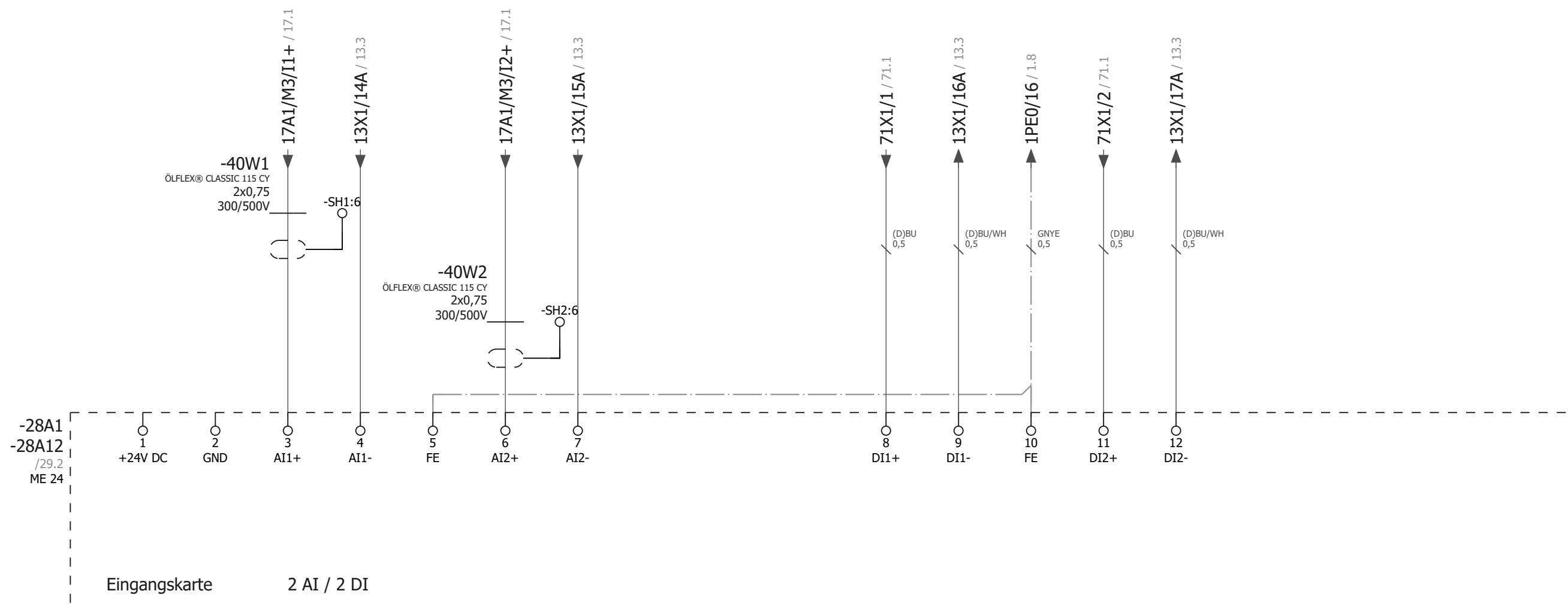
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MW56, RV70, DN25,
8686
V2 - Top

Status	In Prüfung
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8619 I-13
pH-Sonde 8201
554849

8619 I-5
Leitfähigkeitssensor 8221
562420

T-Ventil
Typ 2104; 8691 V3
Rückmelder Top

T-Ventil
Typ 2104; 8691 V3
Rückmelder Bottom

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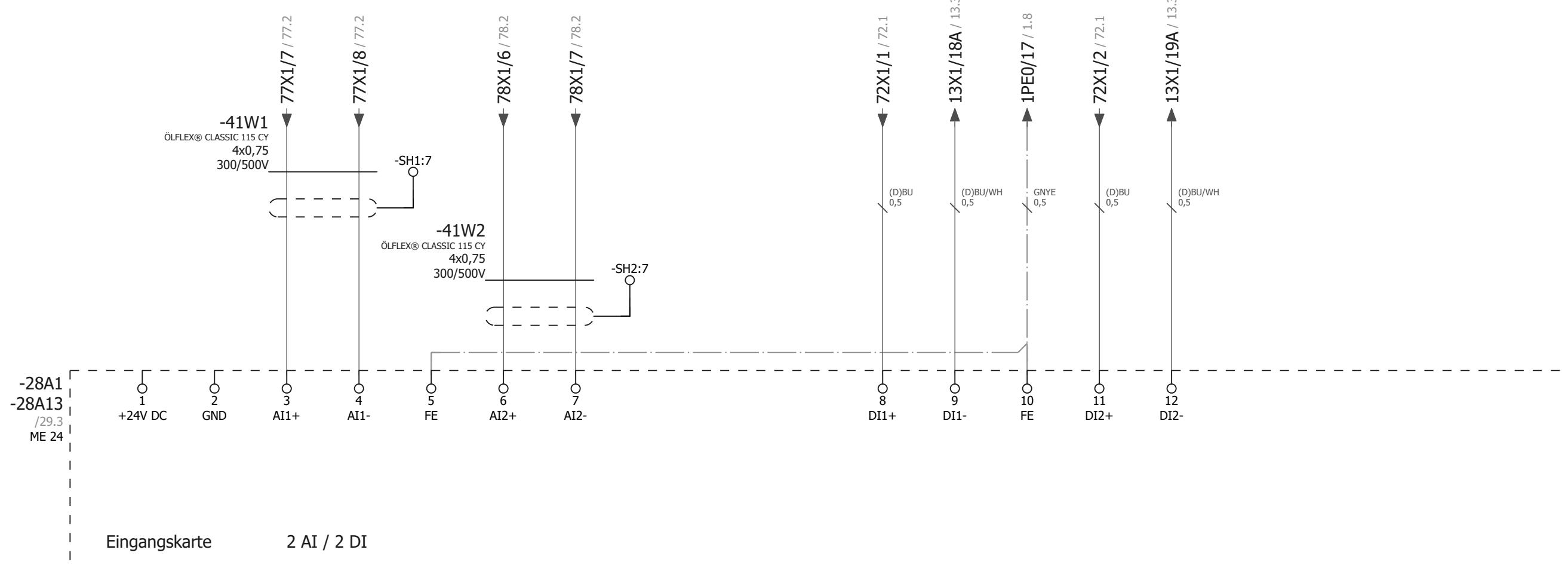
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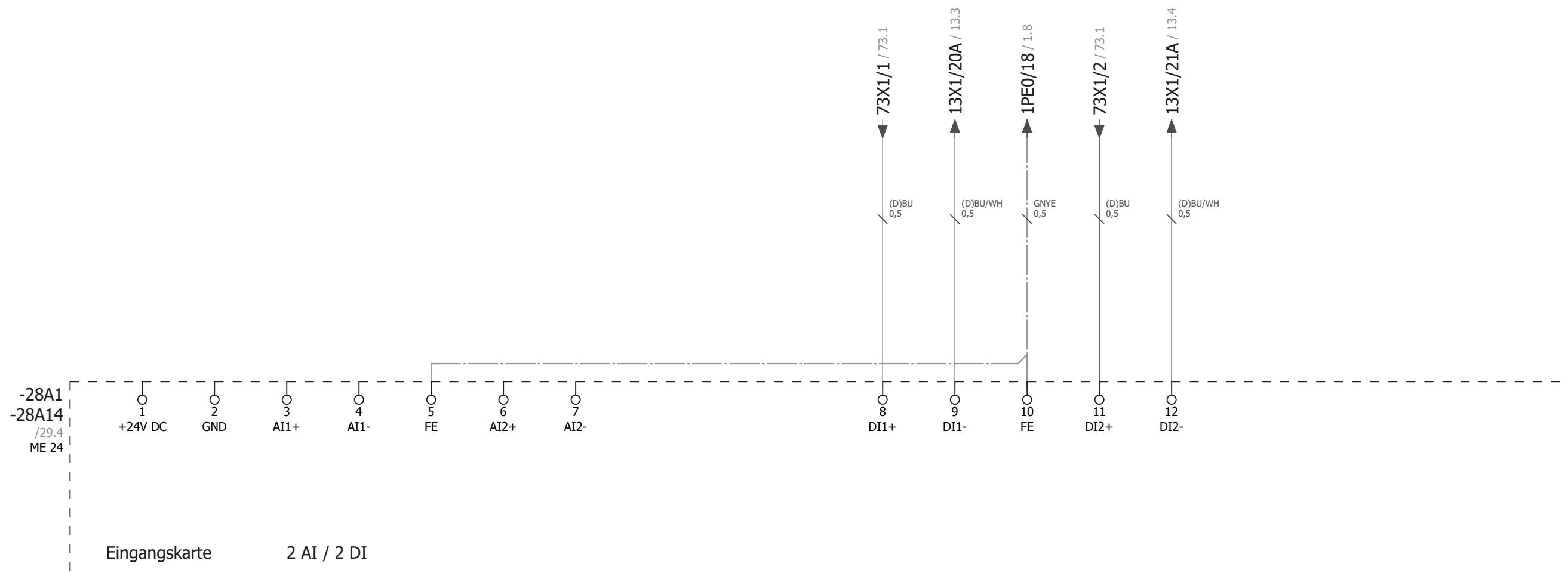
Venile Typ 2301 / 2006;
V17 Optional
Istwert
Venile Typ 2301 / 2006;
V18 Optional
Istwert

Multifunktions- Block
Typ 2034; 8697
V7 - Bottom

Multifunktions- Block
Typ 2034; 8697
V7 - Top

Status	In Prüfung
Date	22.03.2018
Version	-
Approved by	
Revised by	MMT
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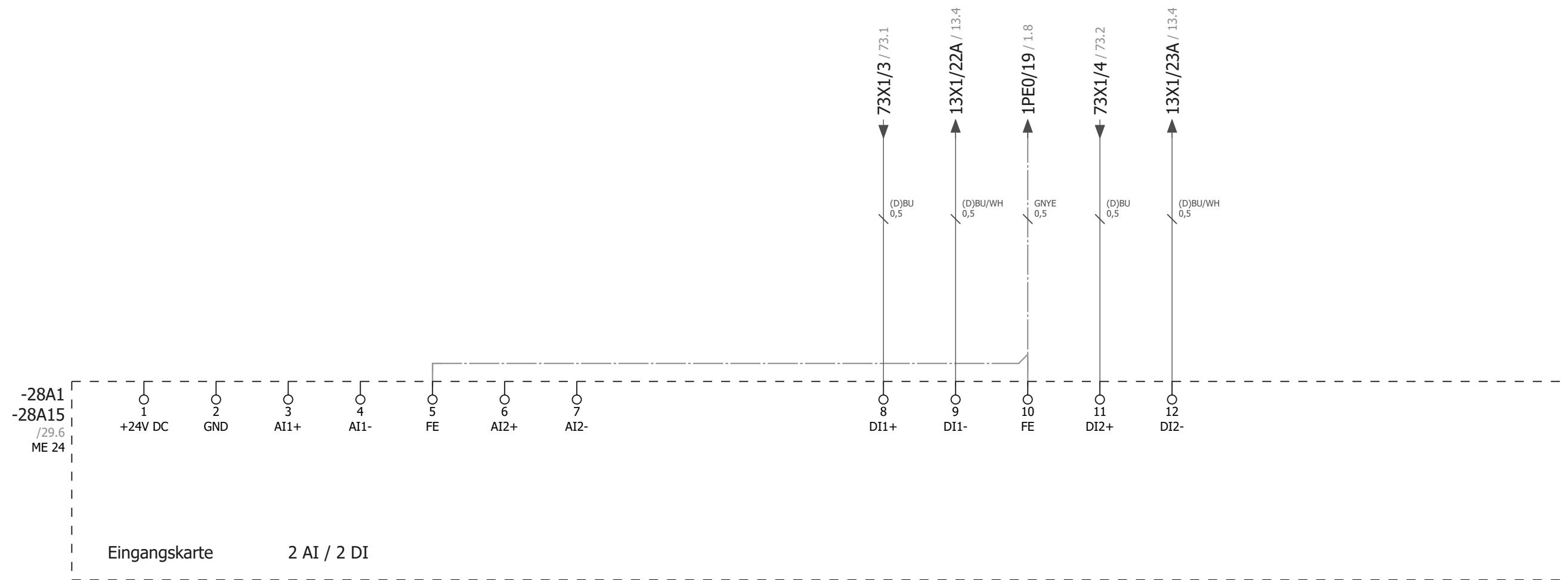
SY07CS
Versuchsstand Laborbehälter
ME24-2AI/2DI

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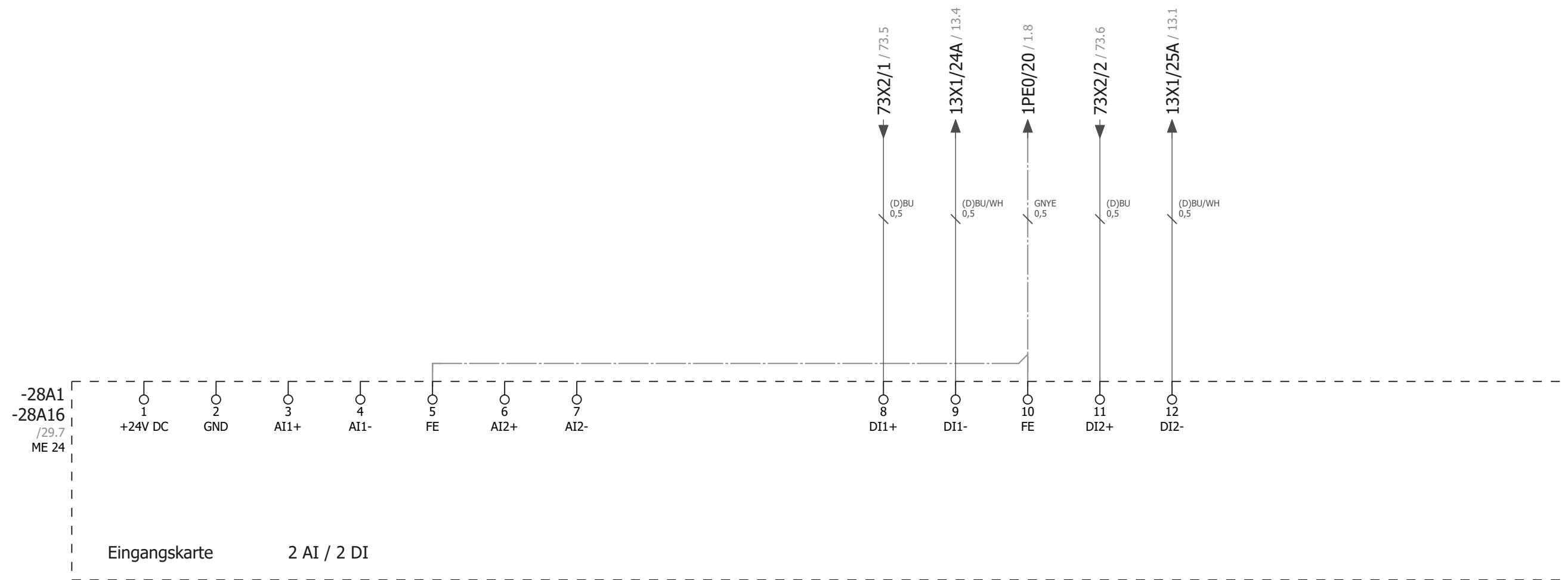


Project No: 13421
ID-No: 00320547
WF-No:
SN:

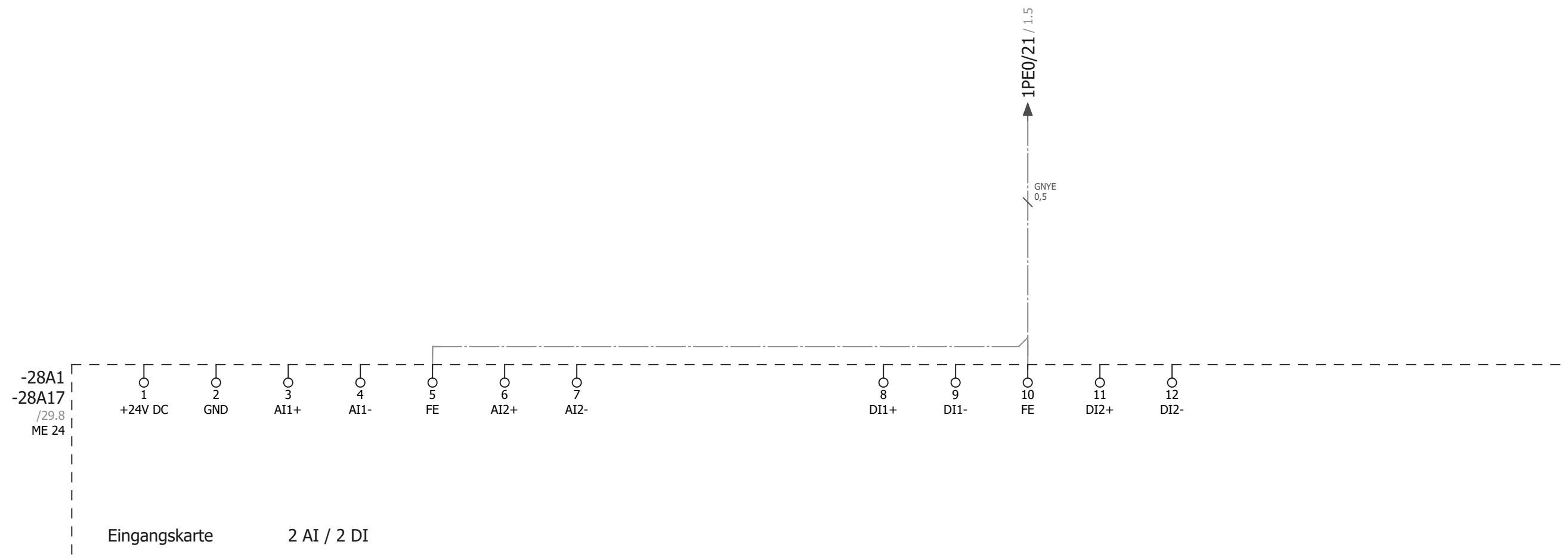
& BFS
= 8615
+
Dok ID PDF: 9560016088 Page 42
Dok ID Inno: 9560016087 Page 107

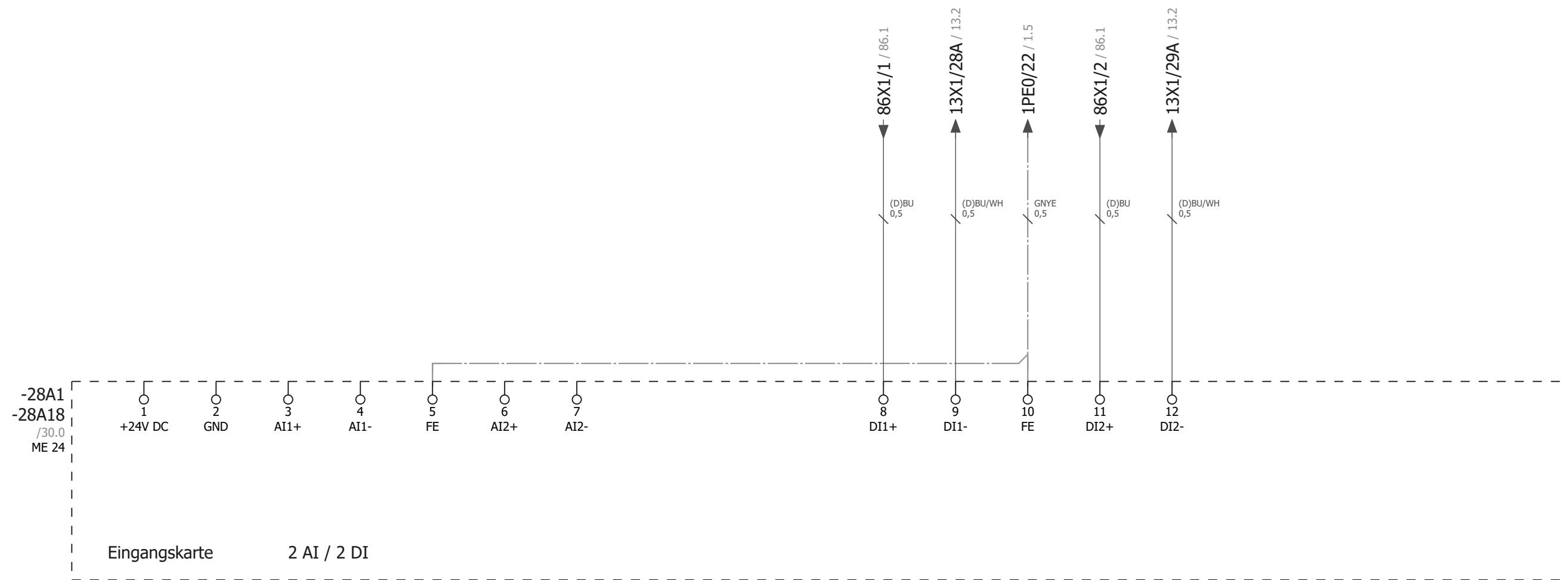


Status	In Prüfung	SY07CS Versuchsstand Laborbehälter	ME24-2AI/2DI	Multifunktions- Block Typ 2036; V8 - Bottom	Multifunktions- Block Typ 2036; V8 - Top	Project No:	13421	& BFS
Date	22.03.2018					ID-No:	00320547	= 8615
Version	-					WF-No:		+
Approved by						Dok ID PDF:	9560016088	Page 43
Revised by	MMT					Dok ID Inno:	9560016087	Page 107
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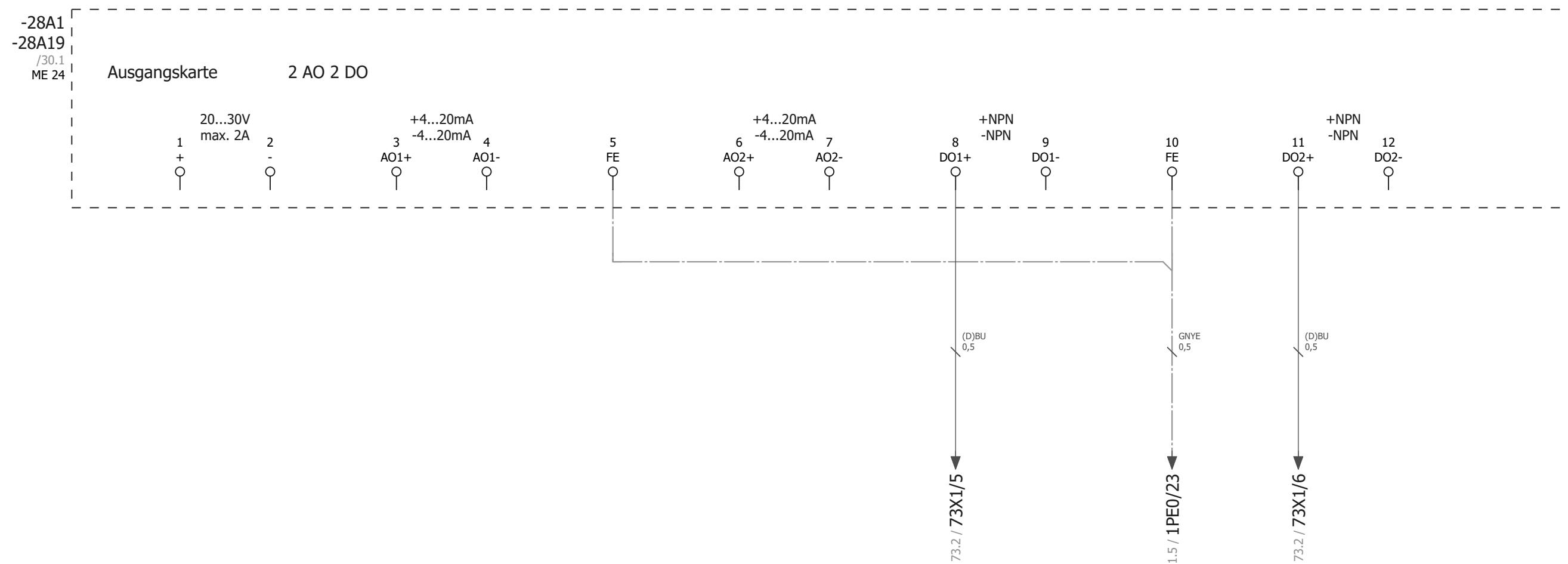


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Date	22.03.2018					ID-No: 00320547	= 8615
Version	-					WF-No:	+
Approved by						Dok ID PDF: 9560016088	Page 44
Revised by	MMT					Dok ID Inno: 9560016087	Page 107
Created by	TMU					SN:	





Status	In Prüfung	SY07CS Versuchsstand Laborbehälter	ME24-2AI/2DI	Ventil V6 - Bottom Ventil V6 - Top	bürkert FLUID CONTROL SYSTEMS	Project No: 13421	& BFS
Date	22.03.2018					ID-No: 00320547	= 8615
Version	-					WF-No:	+
Approved by						Dok ID PDF:	9560016088
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Multifunktions- Block
Typ 2036; V8 - V9 - V10
Ventil 1 / Antrieb 2

Multifunktions- Block
Typ 2036; V8 - V9 - V10
Ventil 1 / Antrieb 1

Status	In Prüfung
Date	22.03.2018
Version	-
Approved by	
Revised by	MMT
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SY07CS ME24-2AO/2DO

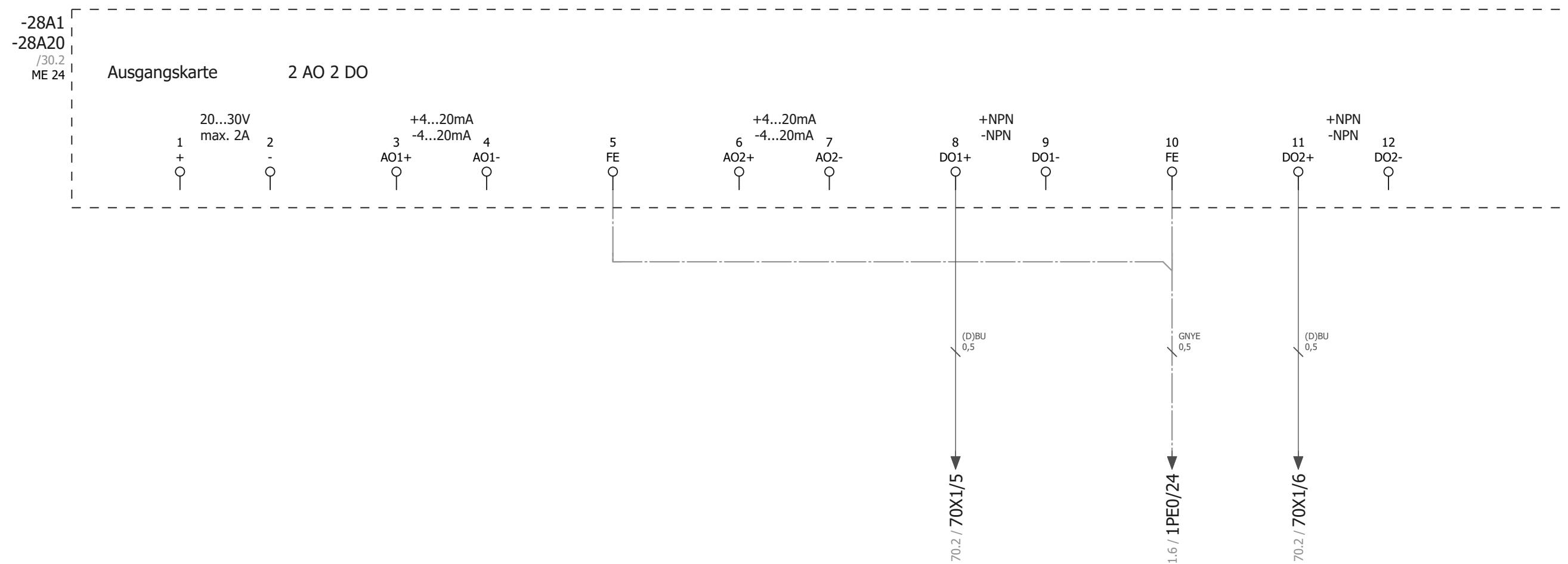
Versuchsstand Laborbehälter

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Robolux TBV
MW56, RV70, DN25,
8686 V1 - V2
Antrieb 2

Robolux TBV
MW56, RV70, DN25,
8686 V1 - V2
Antrieb 1

Status	In Prüfung
Date	22.03.2018
Version	-
Approved by	
Revised by	MMT
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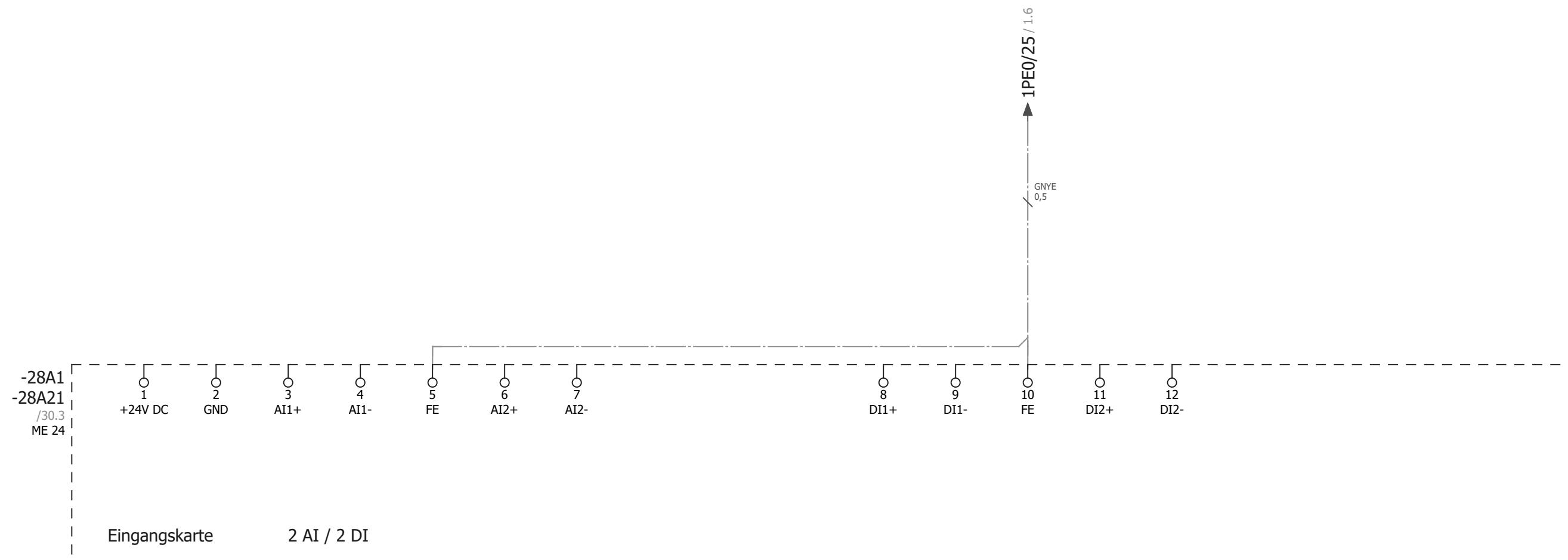
ME24-2AO/2DO

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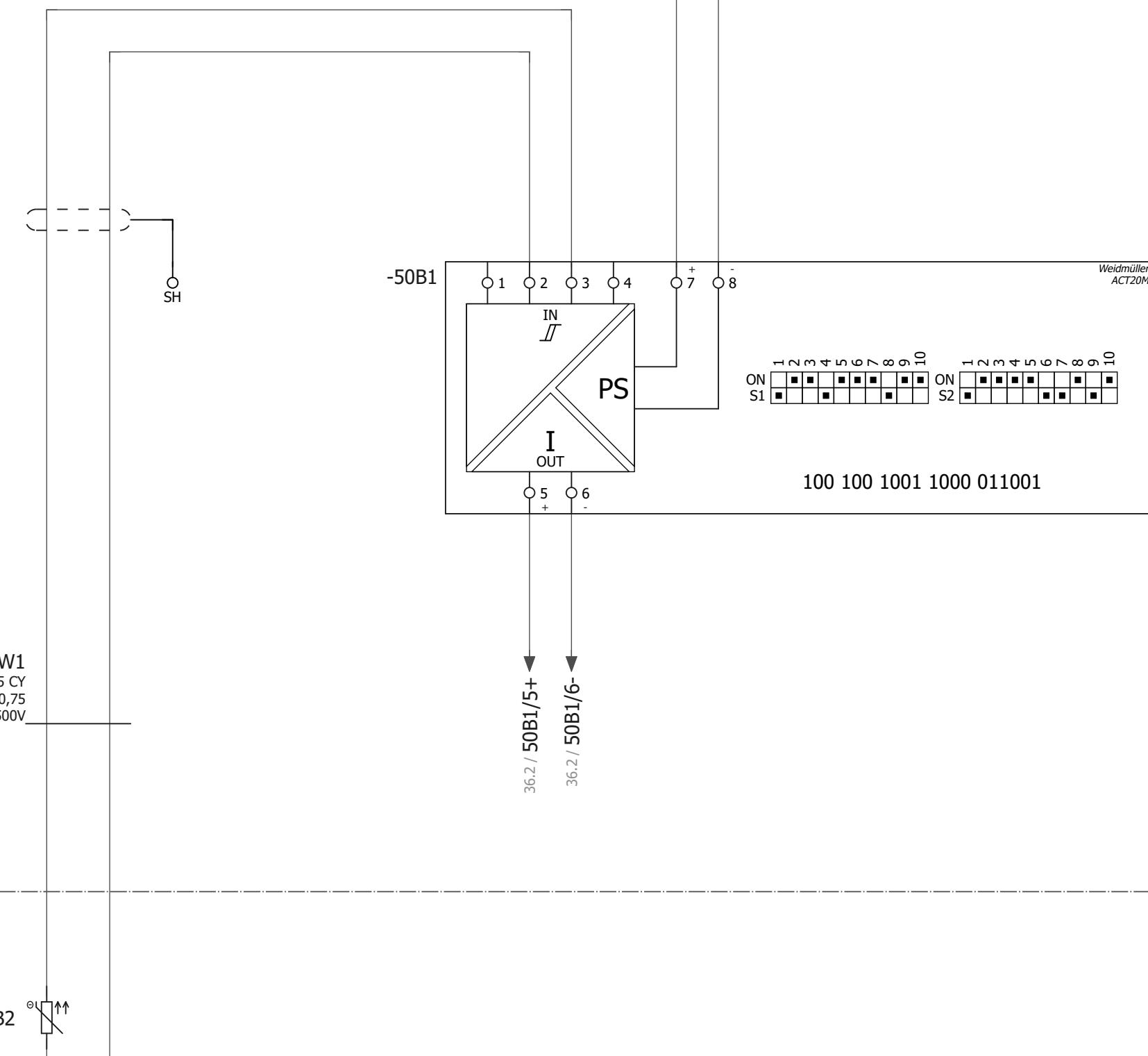


Status	In Prüfung	SY07CS Versuchsstand Laborbehälter	ME24-2AI/2DI	bürkert FLUID CONTROL SYSTEMS	Project No:	13421	& BFS
Date	22.03.2018				ID-No:	00320547	= 8615
Version	-				WF-No:		+
Approved by					Dok ID PDF:	9560016088	Page 49
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0 1 2 3 4 5 6 7 8 9

10.3 / 10X1/5A ► 10X1/5A / 51.0
 10.5 / 10X1/10A ► 10X1/10A / 51.0



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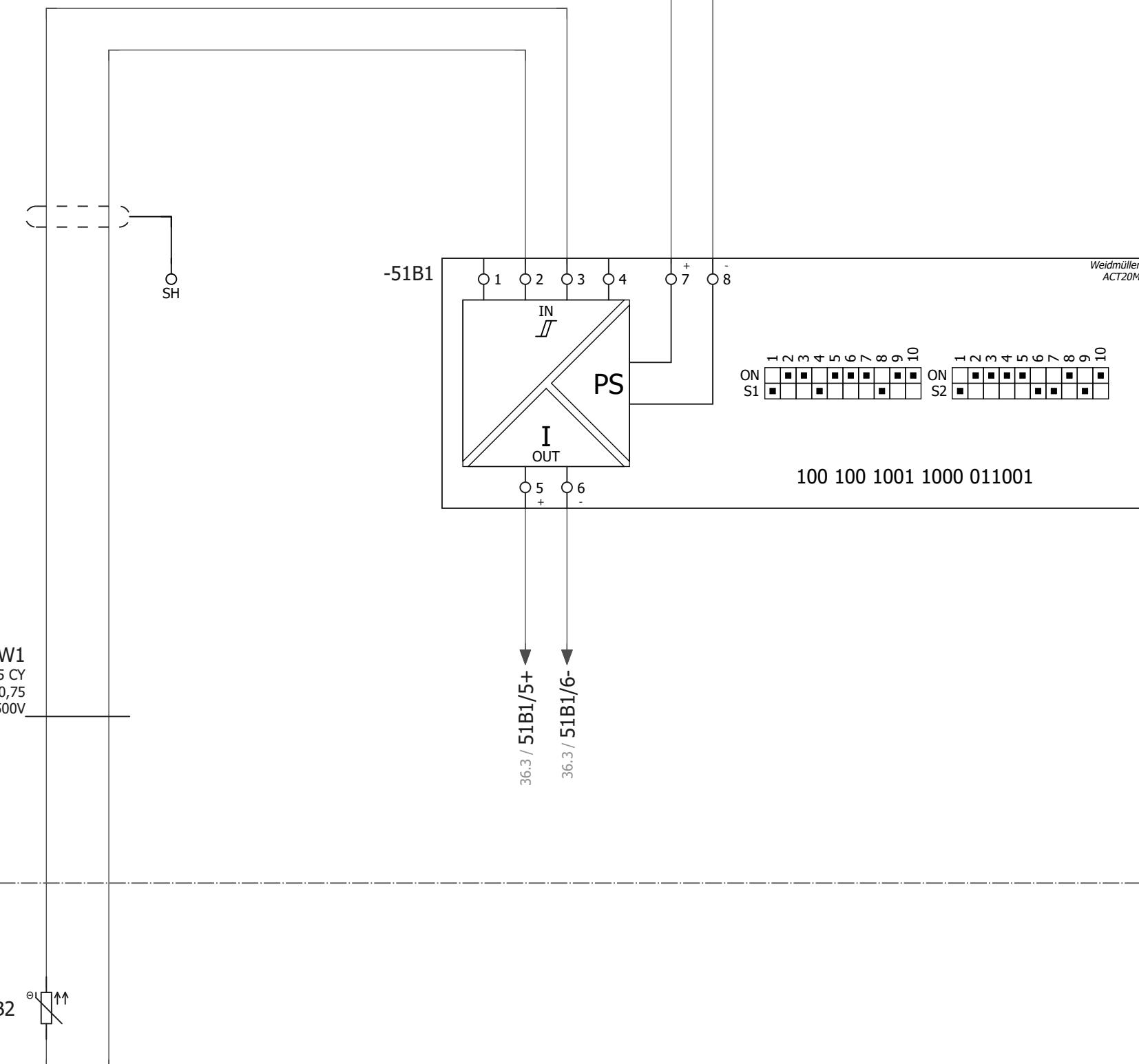


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50.9 / 10X1/5A ► 10X1/5A / 52.0
 50.9 / 10X1/10A ► 10X1/10A / 52.0



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I-9
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52

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Created by	TMU

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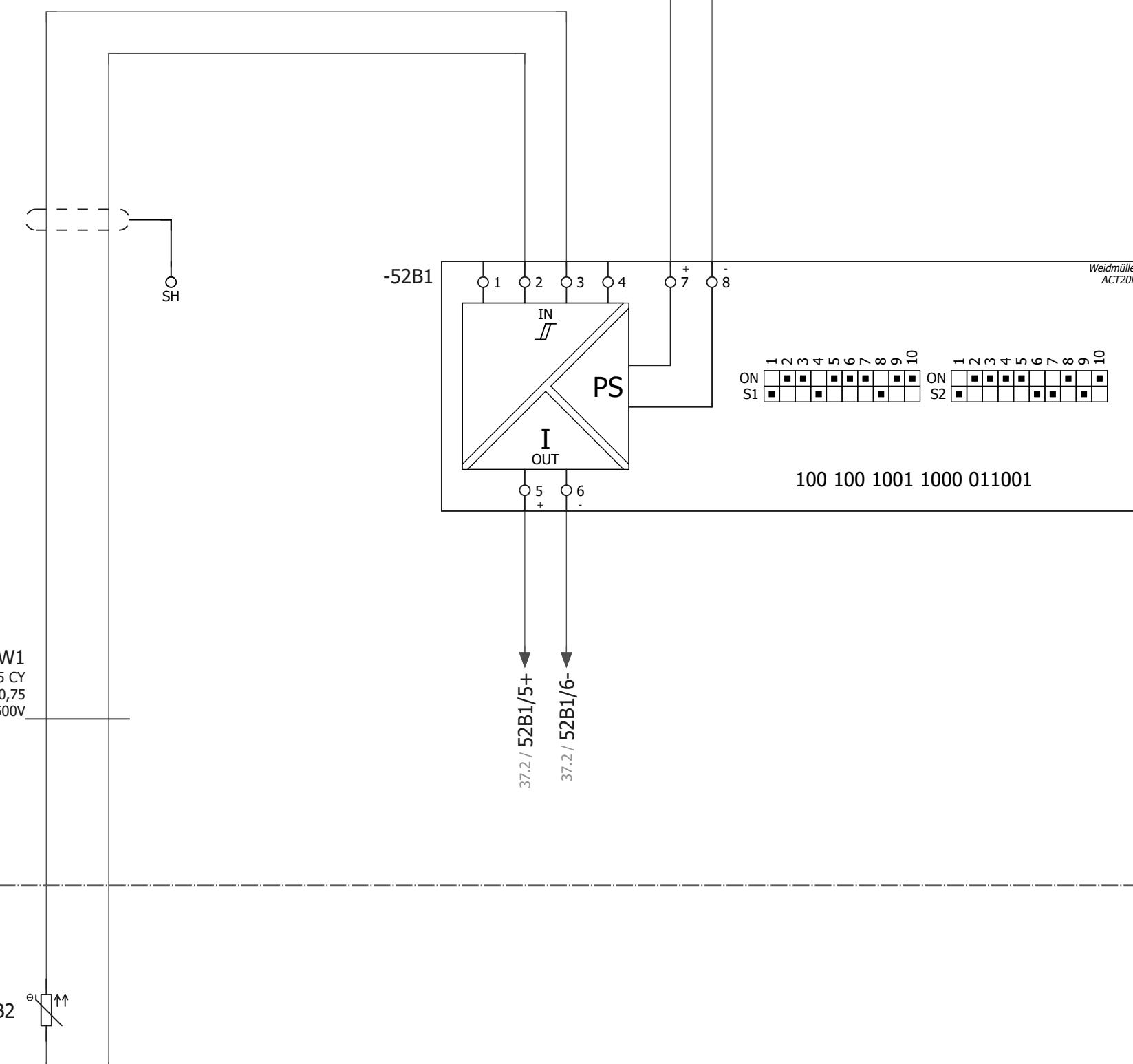
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51.9 / 10X1/5A
51.9 / 10X1/10A

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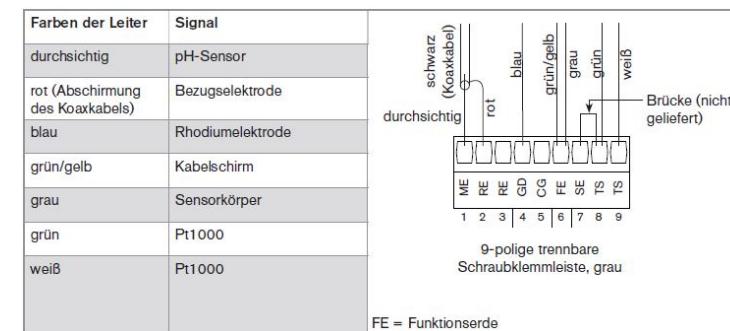
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 55A1/BALU / 17.8
 55A1/GN-GE / 17.8
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 55A1/GRUN / 17.8
 55A1/WEIB / 17.9

-55W1
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-55A1

DURCH. ROT BLAU GN/GE GRAU GRÜN WEIB

pH-Sonde Email 8201
554849
I-13

-55W2
7x0,5

ROT DURCH. GRAU BLAU GN/GE WEIB GRÜN

Leitfähigkeitssensor 8221
562420
I-5



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Ph/ORP-Modul + COND

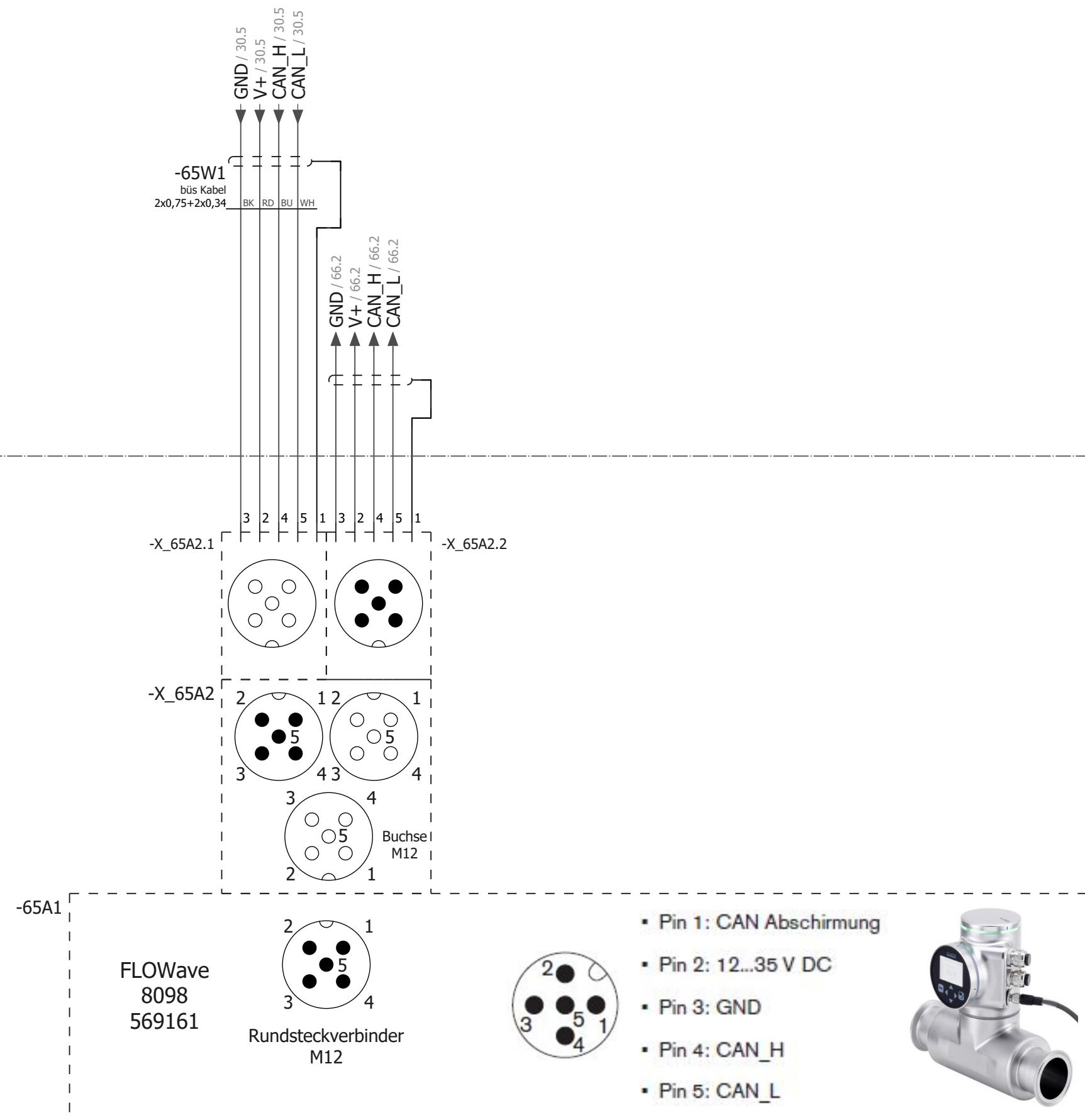
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Page	107

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Versuchsstand Laborbehälter

FLOWave I-4

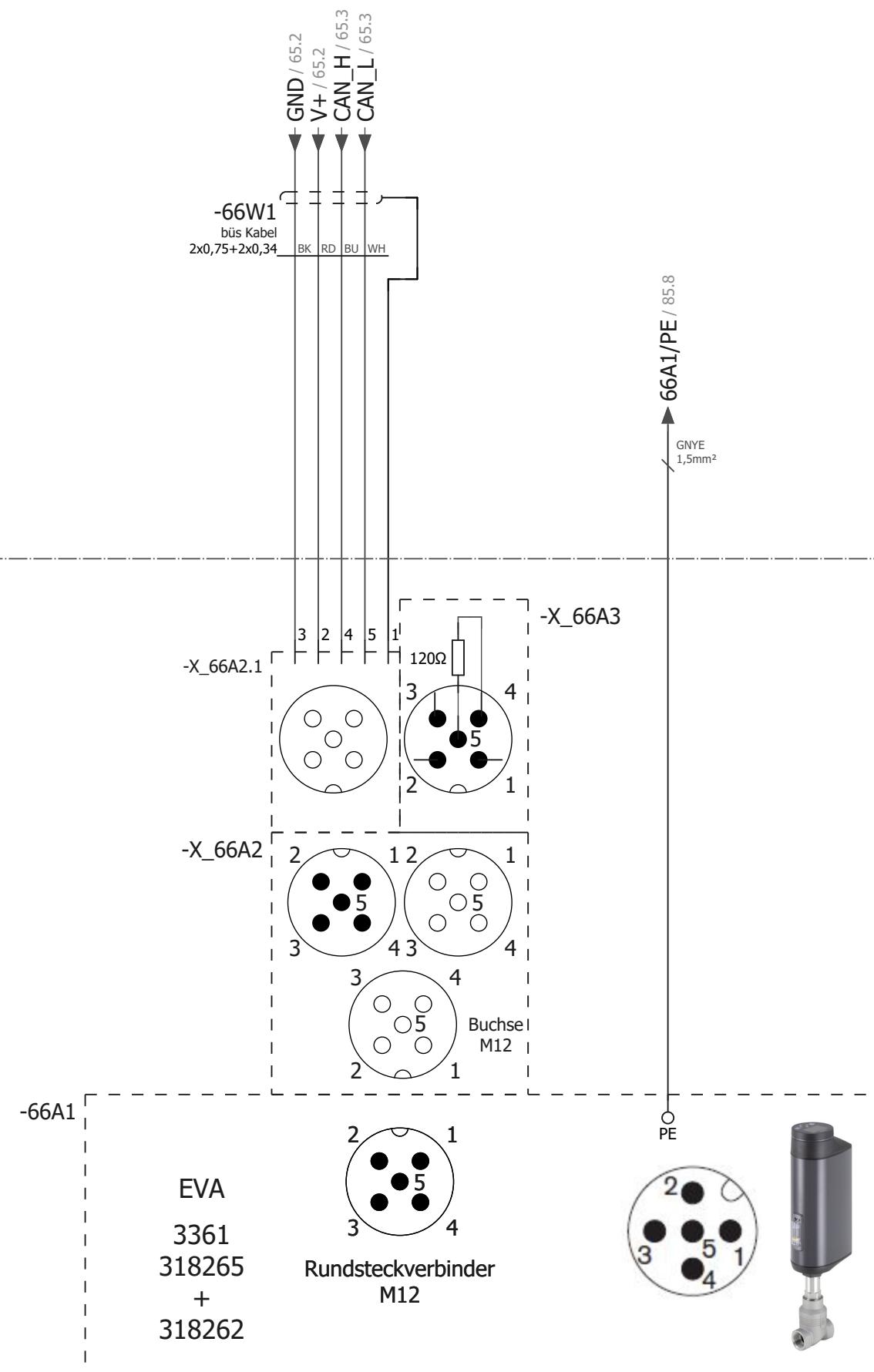
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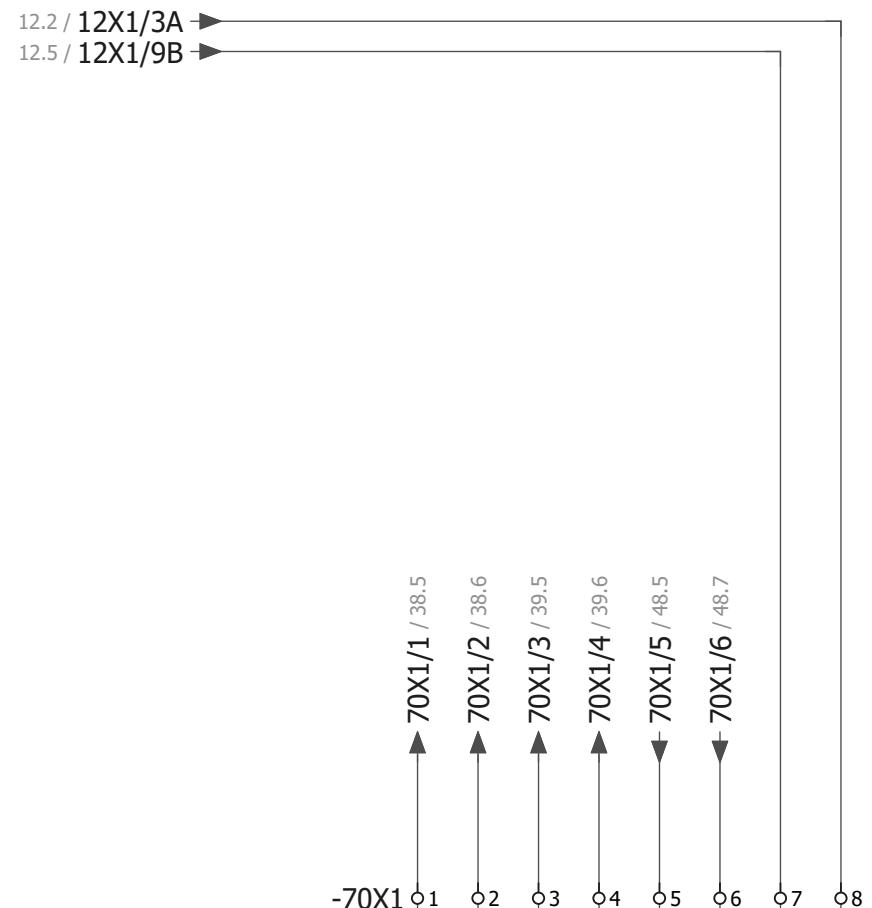


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Date	22.03.2018
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EVA V-5

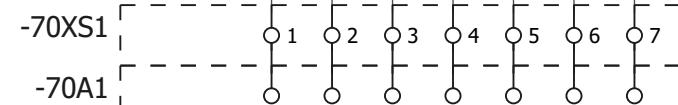
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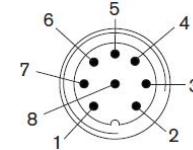
-70W1
Rundbuchse
2 m
8x0,25
ID.:919061

WH BN GN YE GY PK BU RD



Robolux

2036 + 8686



Pin	Ader-farb ²⁾	Belegung ³⁾	Äußere Beschaltung
1	weiß	Endstellung unten - Bot Antrieb 2	1 → 24 V / 0 V (max. 0,1 A) 1 — GND (7)
2	braun	Endstellung oben - Top Antrieb 2	2 → 24 V / 0 V (max. 0,1 A) 2 — GND (7)
3	grün	Endstellung unten - Bot Antrieb 1	3 → 24 V / 0 V (max. 0,1 A) 3 — GND (7)
4	gelb	Endstellung oben - Top Antrieb 1	4 → 24 V / 0 V (max. 0,1 A) 4 — GND (7)
5	grau	Ventilansteuerung Y2 Antrieb 2 betätigt	5 high aktiv, zur Aktivierung mit 24 V verbinden
6	rosa	Ventilansteuerung Y1 Antrieb 1 betätigt	6 high aktiv, zur Aktivierung mit 24 V verbinden
7	blau	Betriebsspannung -	GND
8	rot	Betriebsspannung +	24 V DC ± 10% 8 —



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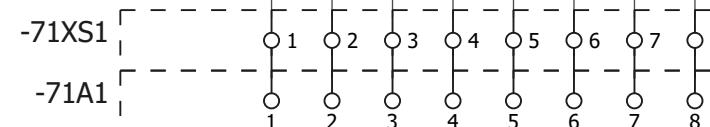
Robolux TBV MW56, RV70, DN25, 8686 V1 - V2

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-71W1
Rundbuchse
5 m
8x0,25
ID.:919267

WH BN GN YE GY PK BU RD



T-Ventil

2104 + 8691

Pin	Bezeichnung	Belegung
1	Endschalter 1	IN 1 / TOP
2	Endschalter 2	IN 2 / BOTTOM
3	Betriebsspannung	GND
4	Betriebsspannung +	24 V DC
5	Ventilansteuerung +	Ventil +
6	Ventilansteuerung -	Ventil
7	-	nicht belegt
8	-	nicht belegt



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T-Ventil Typ 2104; 8691 V3

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FLUID CONTROL SYSTEMS

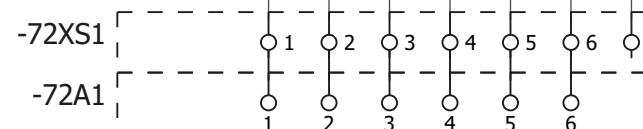
Project No: 13421
ID-No: 00320547
WF-No:
SN:

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= 8615	
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Dok ID PDF: 9560016088	Page 71
Dok ID Inno: 9560016087	Page 107



-72W1
Rundbuchse
2 m
8x0,25
ID.:919061

WH	BN	GN	YE	GY	PK	BU	RD
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2034 + 8697

242428 + 248818

Pin	Aderfarbe ⁵⁾	Belegung	Äußere Beschaltung
1	weiß	INI Bottom OUT Ausgang 1	1 — Ausgang 1 (24 V)
2	braun	INI Top OUT Ausgang 2	2 — Ausgang 2 (24 V)
3	grün	INI - (GND) Versorgung	3 — GND
4	gelb	INI + (24 V DC) Versorgung	4 — +24 V DC
5	grau	Ventilansteuerung 0 / 24 V	5 — 0 / 24 V DC ± 10 %
6	rosa	Ventilansteuerung GND	6 — Restwelligkeit 10 %

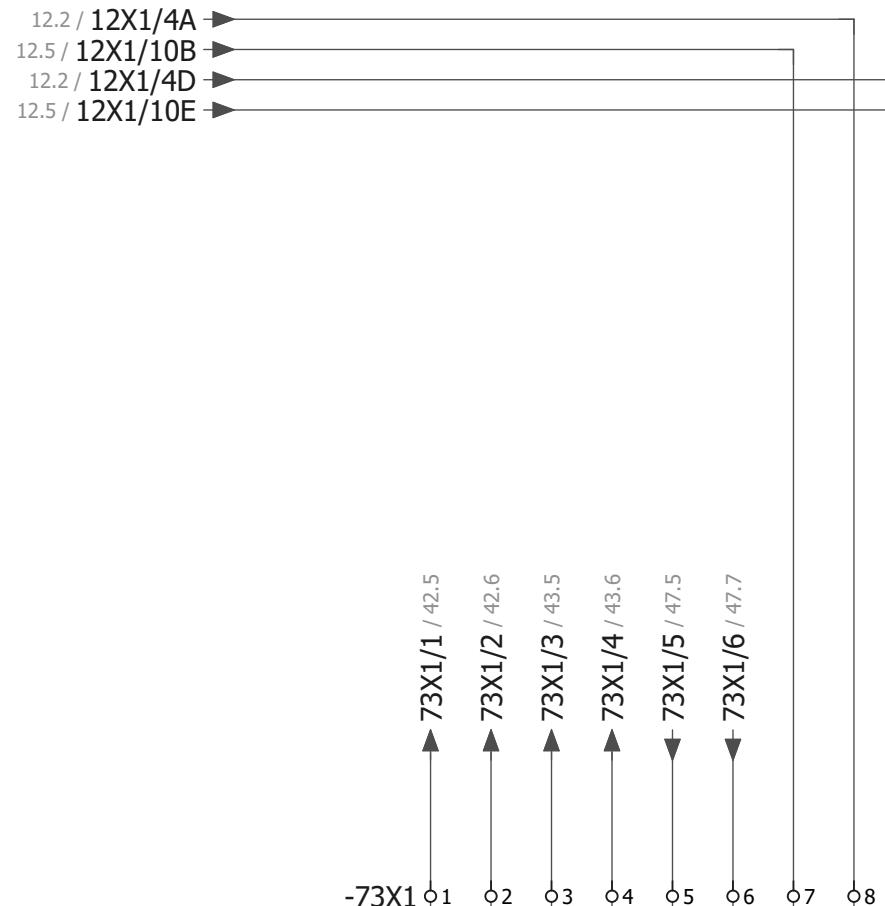


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Multifunktions- Block Typ 2034; 8697 V6 - V7

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+SYS

-73W1
Rundbuchse
2 m
8x0,25
ID.:919061

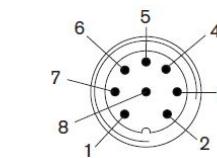
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-73XS1
-73A1

o1	o2	o3	o4	o5	o6	o7	o8
1	2	3	4	5	6	7	8

Robolux

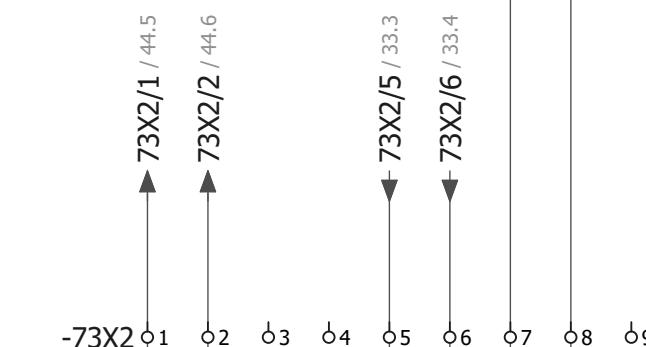
2036 + 8686



Pin	Aderfarbe ⁵⁾	Belegung ³⁾	Äußere Beschaltung
1	weiß	Endstellung unten - Bot Antrieb 2	1 → 24 V / 0 V (max. 0,1 A) 8 → GND (7)
2	braun	Endstellung oben - Top Antrieb 2	2 → 24 V / 0 V (max. 0,1 A) 7 → GND (7)
3	grün	Endstellung unten - Bot Antrieb 1	3 → 24 V / 0 V (max. 0,1 A) 6 → GND (7)
4	gelb	Endstellung oben - Top Antrieb 1	4 → 24 V / 0 V (max. 0,1 A) 5 → GND (7)
5	grau	Ventilansteuerung Y2 Antrieb 2 betätigt	← 5 high aktiv, zur Aktivierung mit 24 V verbinden
6	rosa	Ventilansteuerung Y1 Antrieb 1 betätigt	← 6 high aktiv, zur Aktivierung mit 24 V verbinden
7	blau	Betriebsspannung -	GND
8	rot	Betriebsspannung +	24 V DC ± 10%



-73A3
2036 + 8686 + 2103 + 8697
231292 + 248818



-73W2
Rundbuchse
2 m
8x0,25
ID.:919061

WH	BN	BU	RD	GY	PK	GN	YE
----	----	----	----	----	----	----	----

-73XS2
-73A2

o1	o2	o5	o6	o3	o4	o1	o2
5	6	3	4	1	2	5	6

Robolux

2036 + 8697

Pin	Aderfarbe ⁵⁾	Belegung	Äußere Beschaltung
1	weiß	INI Bottom OUT Ausgang 1	1 → Ausgang 1 (24 V)
2	braun	INI Top OUT Ausgang 2	2 → Ausgang 2 (24 V)
3	grün	INI - (GND) Versorgung	3 → GND
4	gelb	INI + (24 V DC) Versorgung	4 → +24 V DC
5	grau	Ventilansteuerung 0 / 24 V	5 → 0 / 24 V DC ± 10 %
6	rosa	Ventilansteuerung GND	6 → Restwelligkeit 10 %



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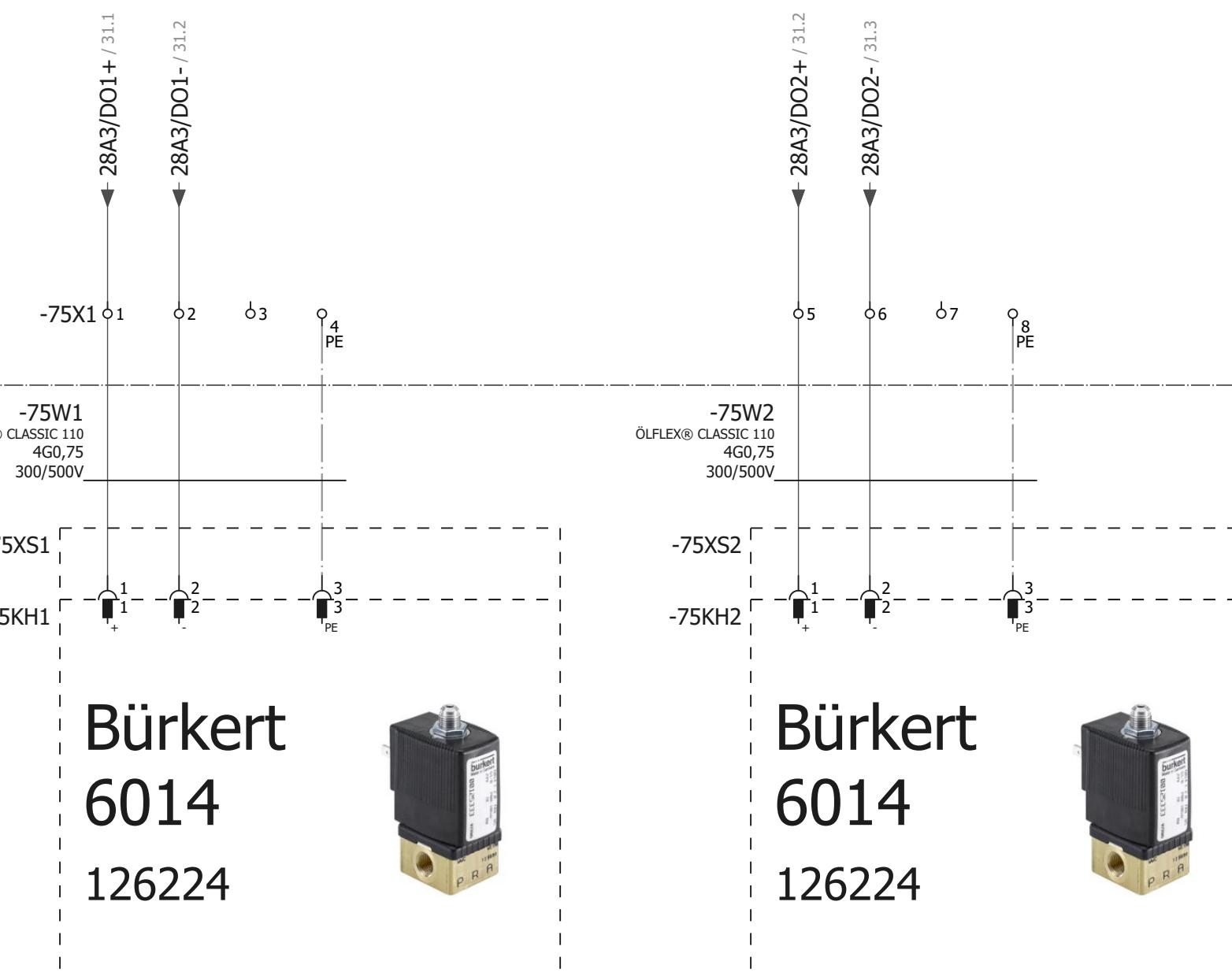
Multifunktions- Block Typ 2036; V8 - V9 - V10

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FLUID CONTROL SYSTEMS

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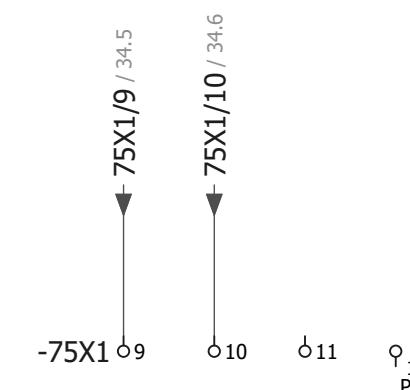
Venile Typ 6014; V13 - V15

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SN:

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+SYS

-28A1 -28A6
D001+
-28A1 -28A6
D001-

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Venile Typ 6624; V16 Optional

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+SYS

Sollwert + (0/4 ... 20mA)
Sollwert GND
GND
+ 24 V
Binäreingang +
Binäreingang -
Analoge Stellungsrückmeldung + (0/4 ... 20mA)
Analoge Stellungsrückmeldung GND

Status	In Prüfung
Date	22.03.2018
Version	-
Approved by	
Revised by	TMU
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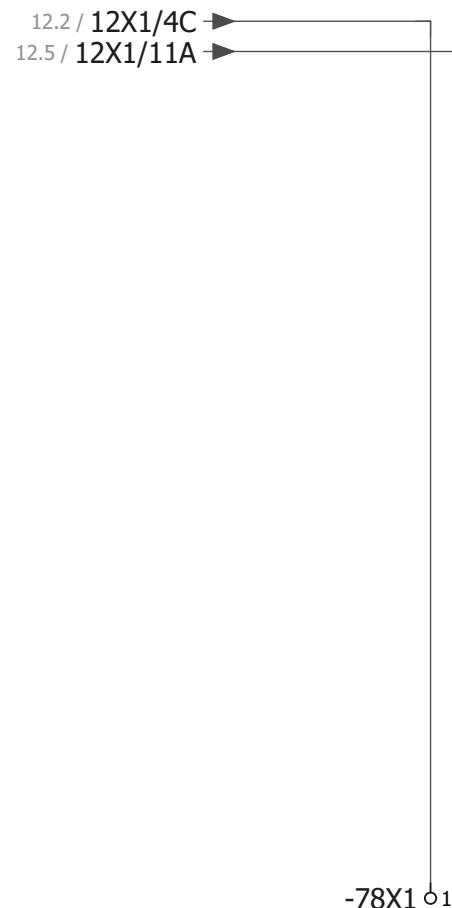
Venile Typ 2301 / 2006; V17 Optional



Project No: 13421
ID-No: 00320547
WF-No:
SN:

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Dok ID PDF:	9560016088
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+SYS

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Created by	TMU

+24V DC
GND
Sollwert + (0/4 ... 20mA)
Sollwert GND
N.C.
Istwert + (0/4 ... 20mA)
Istwert GND

Venile Typ 2301 / 2006; V18 Optional

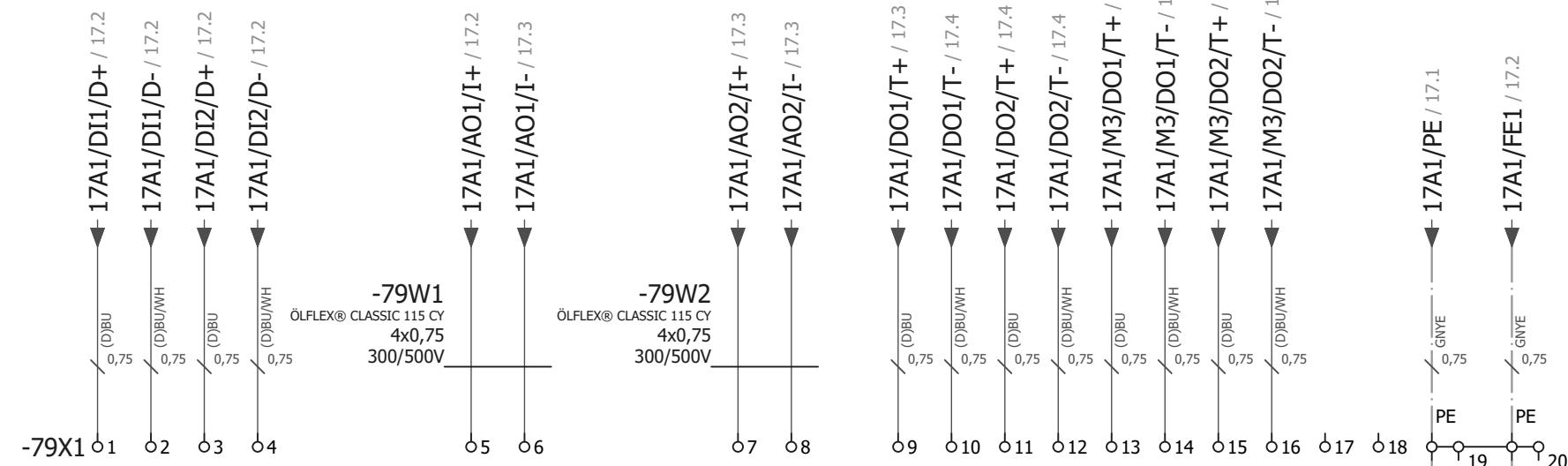
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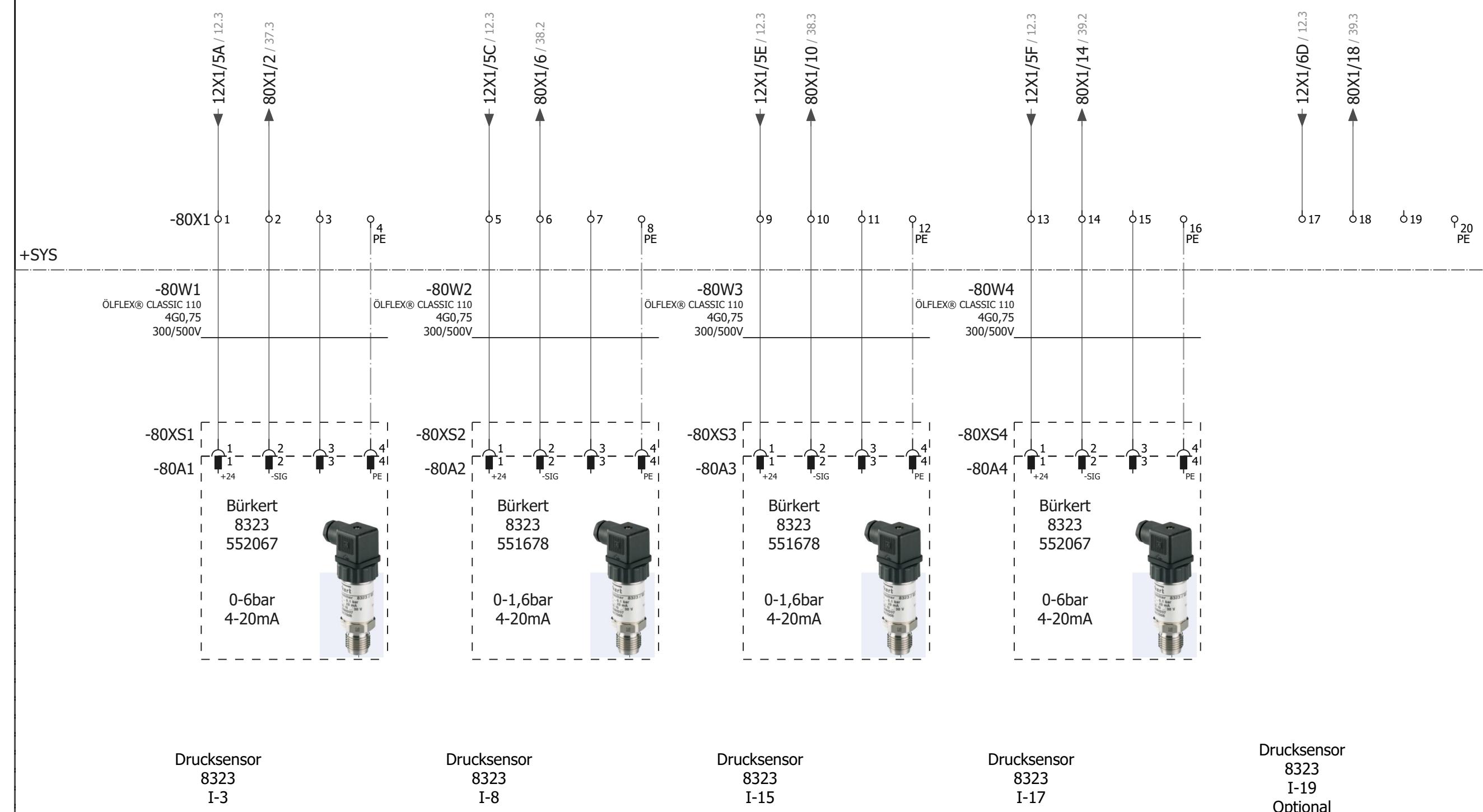
multiCELL 8619 IO

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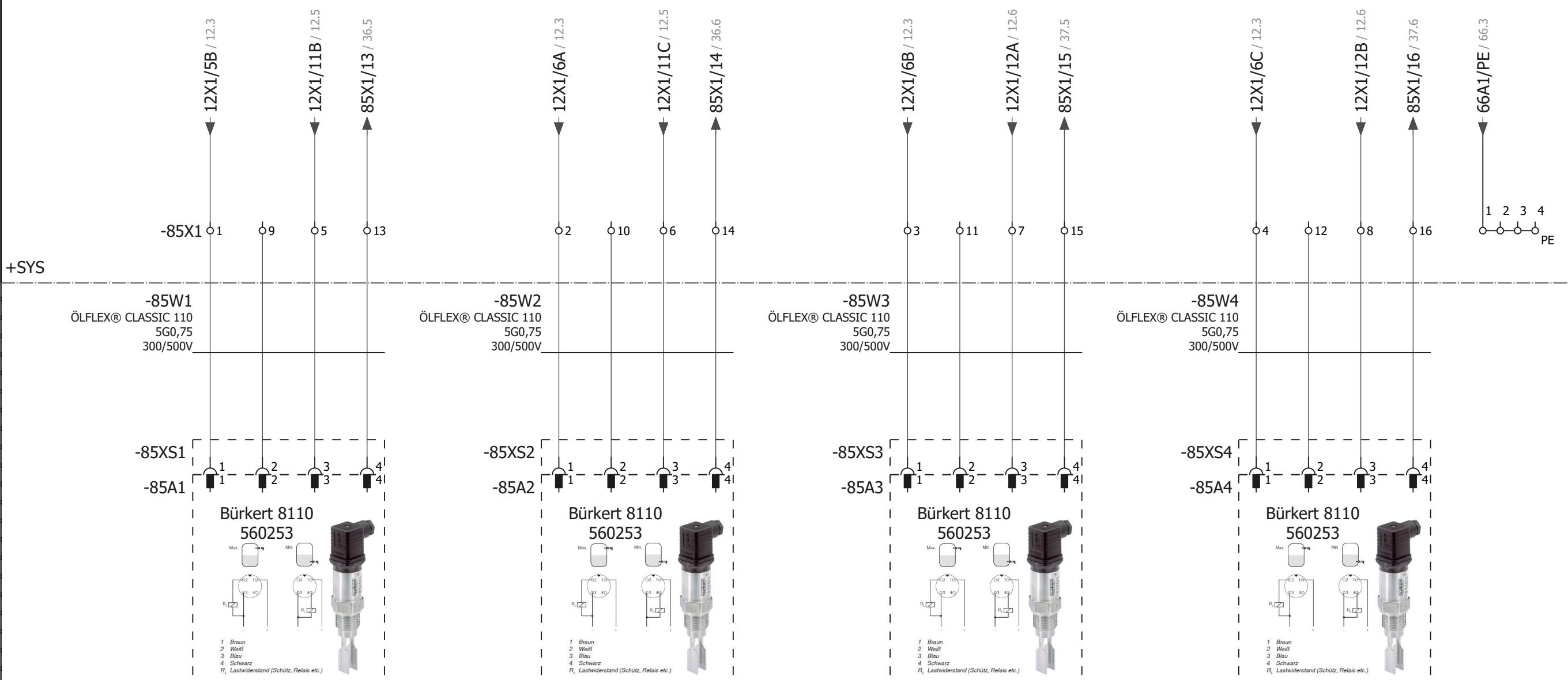


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**Belegung Schwinggabel Prüfen**

S-Klemme 2 max. Füllstand
 S-Klemme 4 min. Füllstand

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Schwinggabel Typ 8110

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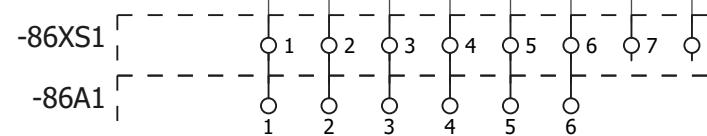
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Rundbuchse
2 m
8x0,25
ID.:919061

WH	BN	GN	YE	GY	PK	BU	RD
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8697

Pin	Aderfarbe ⁵⁾	Belegung	Äußere Beschaltung
1	weiß	INI Bottom OUT Ausgang 1	1 — Ausgang 1 (24 V)
2	braun	INI Top OUT Ausgang 2	2 — Ausgang 2 (24 V)
3	grün	INI - (GND) Versorgung	3 — GND
4	gelb	INI + (24 V DC) Versorgung	4 — +24 V DC
5	grau	Ventilansteuerung 0 / 24 V	5 — 0 / 24 V DC ± 10 %
6	rosa	Ventilansteuerung GND	6 — Restwelligkeit 10 %

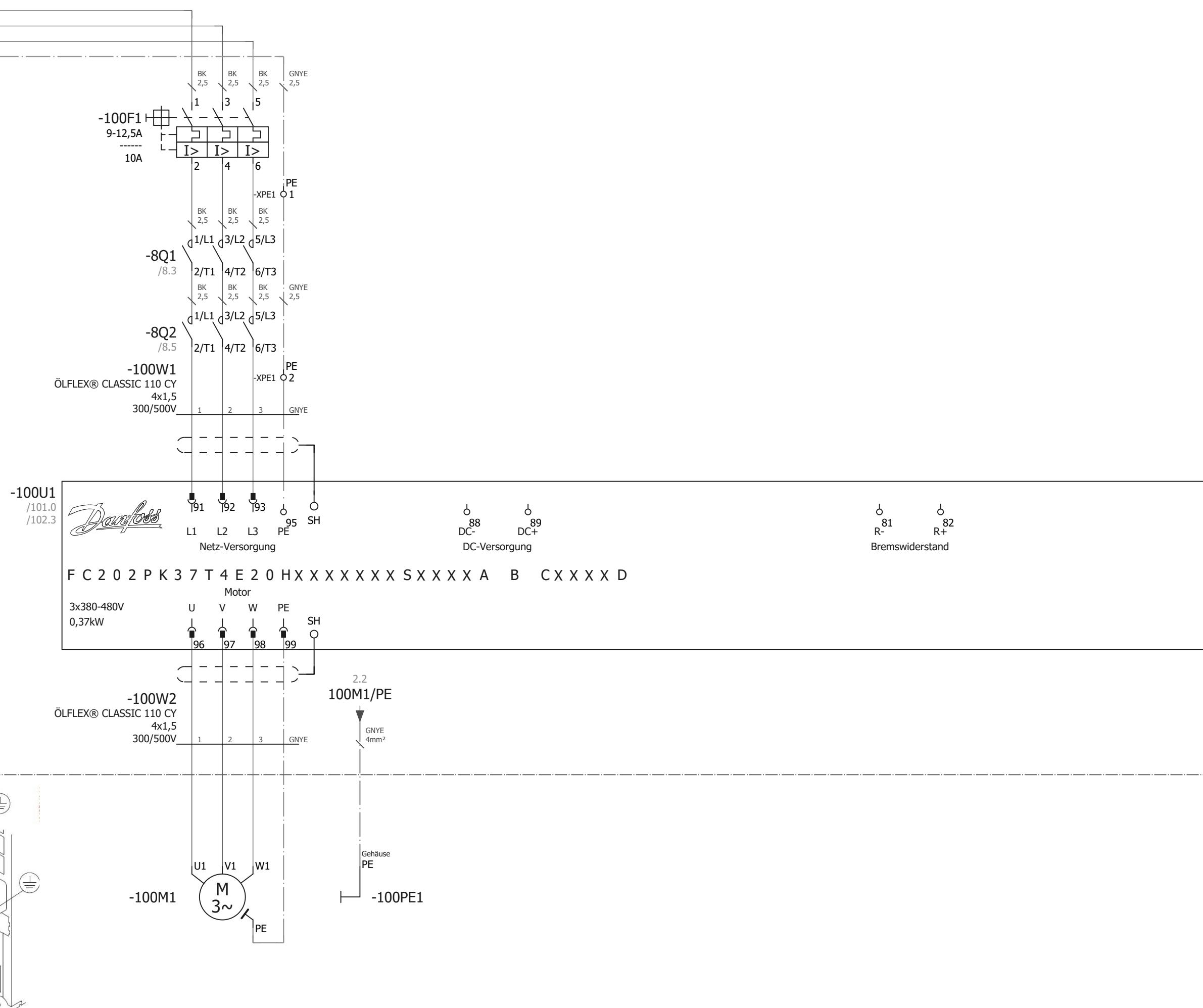


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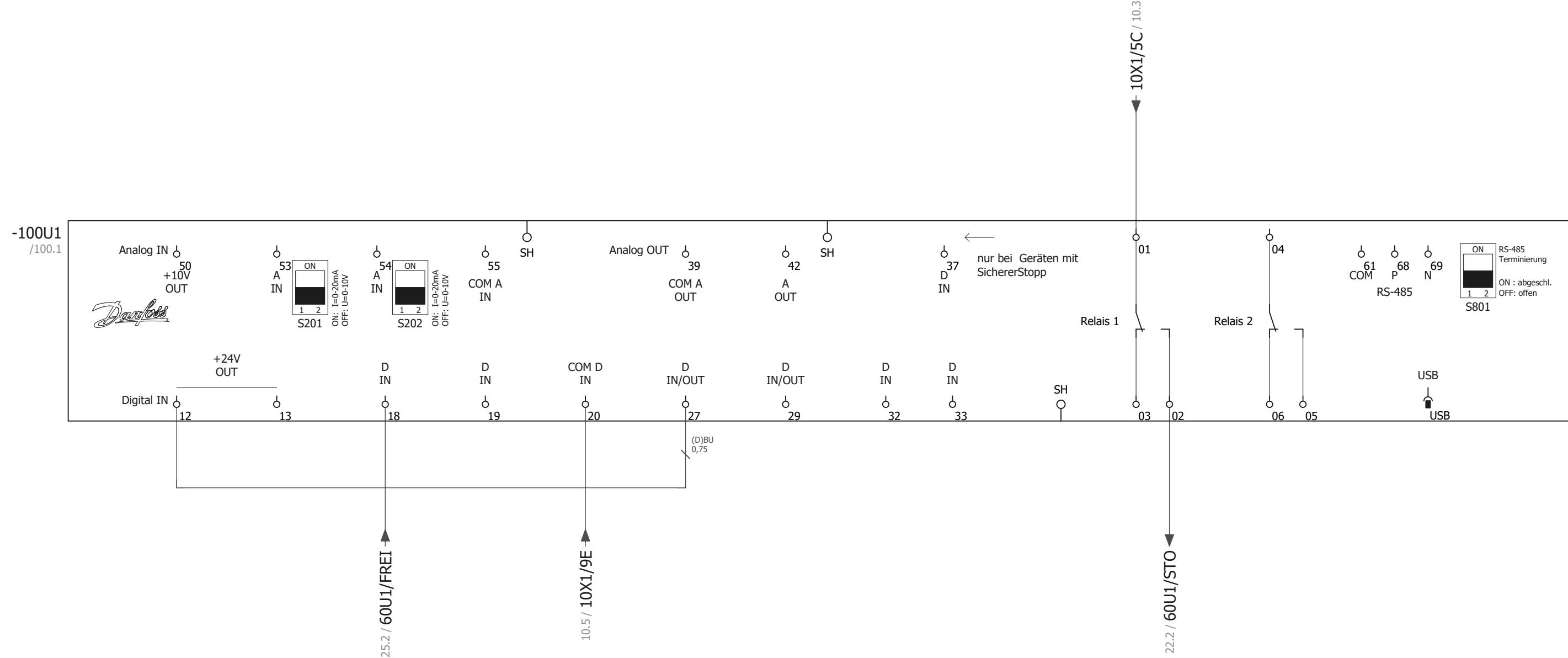
Ventil Typ 8697

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Versuchsstand Laborbehälter

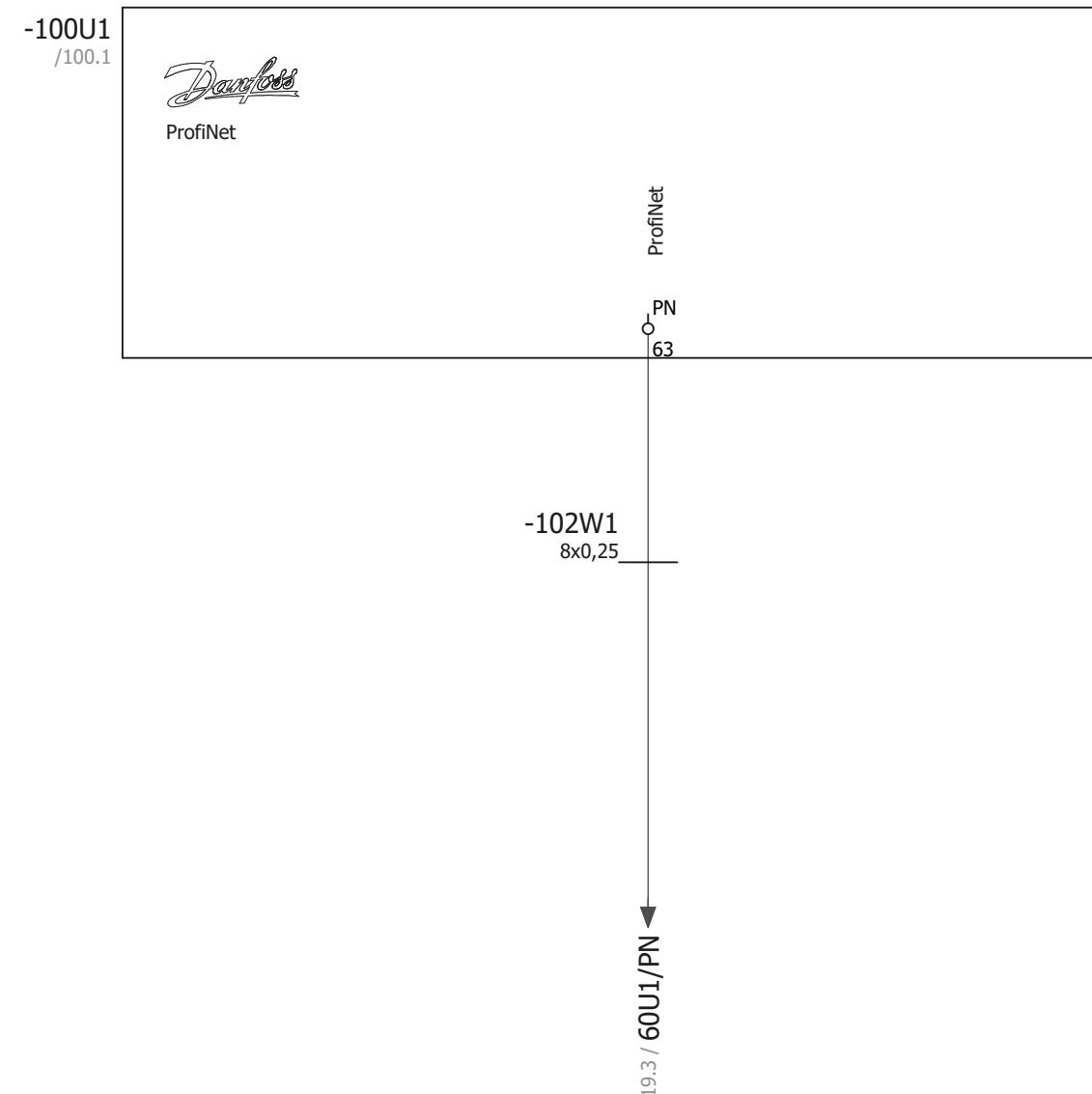
Frequenzumrichter

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Frequenzumrichter

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Materialstückliste / Parts list

Betriebsmittelkennzeichnung Equipment number	Menge Quantity	Beschreibung Description	Bestellnummer Order code	Materialnummer Materialnumber	Hersteller Manufacturer
-1X1;-4X1;-13X1;-27X1;-70X1;-71X1;-72X1;-73X1;-73X2;-75X1;-77X1;-78X1;-79X1;-80X1;-85X1;-239	20	Endwinkel	1854410000	792974	Weidmüller
-1U1;-240	5	Kabelkanal 50x100	6178336	793344	OBO
-3EC1	1	Austrittsfilter für SK 3239.1xx RAL 7035	3239200	786995	Rittal
-SH1;-SH2	2	CU	W00001		Bürkert
-1U1	3	Kabelkanal 75x100	6178338	793345	OBO
-1U1	5	Tragschiene TS 35/15 nach EN 60 715 für KL, KL-HD, AE, 600 mm	2314000		Rittal
-1U1	1	Kompakt-Schalschrank HD 1.4301, BHT 810x1050x300 mm, Höhe hinten 1221mm	1316600	792517	Rittal
-1U1	12	Mehrach Kabelverschraubung MSN M32 4xØ9	23255dm4x9	795632	Pfletsch
-1U1	1	Einbaurahmen doppelt, mit Kunststoffklappe für Schnittstellenklappen	2482310		Rittal
-1U1	1	Schnittstellen-Einsätze, 2xRJ45	2482560	792493	Rittal
-13X1;-X75	10	Mehrstock-Klemme	3213742	750748	Phoenix Contact
-1X1	6	Durchgangsklemme	3211757	751991	Phoenix Contact
-1X1	2	Durchgangsklemme	3211760	751992	Phoenix Contact
-1X1;-XPE1	9	Schutzleiter-Reihenklemme	3211766	751221	Phoenix Contact
-1X1	4	Abschlussdeckel	3030420	793698	Phoenix Contact
-2X1;-79X1	4	Abschlussdeckel	3030488	790255	Phoenix Contact
-4X1;-85X1	20	Doppelstock-Zugfederklemme	3031270	786762	Phoenix Contact
-4X1	1	Abschlussdeckel	3030459	790257	Phoenix Contact
-27X1	2	4-Leiter-Durchgangsklemme	2001-1403	752959	Wago
-27X1	2	4-Leiter-Durchgangsklemme	2001-1401	752594	Wago
-27X1	2	4-Leiter-Durchgangsklemme	2001-1404	752596	Wago
-27X1	2	4-Leiter-Durchgangsklemme	2001-1405	752597	Wago
-70X1;-71X1;-72X1;-73X1;-73X2;-77X1;-78X1;-79X1;-85X1	10	Abschlussdeckel	3211647	751225	Phoenix Contact
-3A1	1	Temperaturregler	3110000	790473	Rittal
-16A1	1	Panel PC	HAWK-AP-12-BT		APROtech
-17A1	1	MultiCell	8619-8-PCPYSI-01-01-010203000000-00	560204	Bürkert
-18A1	1	Ethernet 1Gigabit zu 4 x USB 2.0	EX-6002		exsys
-19A1	1	Industrial Ethernet Switch	2989365		Phoenix Contact

&BFS/102

2

Status	In Prüfung	SY07CS Versuchsstand Laborbehälter	Materialstückliste	 FLUID CONTROL SYSTEMS	Project No: 13421 ID-No: 00320547 WF-No: SN:	& BPC			
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Approved by						Dok ID PDF: 9560016088 Page 1			
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Materialstückliste / Parts list

Betriebsmittelkennzeichnung Equipment number	Menge Quantity	Beschreibung Description	Bestellnummer Order code	Materialnummer Materialnumber	Hersteller Manufacturer
-20A1	1	CPU 1214C, DC/DC/RELAIS, 14DI/10DO/2AI	6ES7214-1HG40-0XB0	751051	Siemens AG
-27A1	1	Feldbusgateway Industrial Ethernet	ME43-0SD-00-EET-R4AP-00100-102000-1	307390	Bürkert
-28A2	1	Elektro fluidische Backplane	BEF1-02XOAA-03L-020204-01-0603-00-0	564844	Bürkert
-28A2	1	SC, Eingang, Links	ME29-01PC-JA0102-32Y04000000003200	564825	Bürkert
-28A3...-28A21	19	Elektro Fluidische Backplane	BEF1-02XOJA-01A-00000-01-0003-00-0	564841	
-28A3...-28A5	3	I/O-Modul System Connect	ME24-01PC-PG0001-32Y00070000004650-MM5 5+NB43	564820	Bürkert
-28A6;-28A7	2	I/O-Modul System Connect	ME24-01PC-PG0001-32Y00070000004650-MM5 5+NB43	564819	Bürkert
-28A8...-28A21	14	I/O Modul System Connect	ME24-01PC-PG0001-32Y02000000004650-NB4 3	564816	Bürkert
-28A22	1	Elektro fluidische Backplane	BEF1-02XOAA-03R-020204-01-0603-00-0	564846	Bürkert
-28A22	1	SC, Eingang, Rechts	ME29-01PC-JA0102-32Y00050000003200		Bürkert
-50B1;-51B1;-52B1	3	Temperaturmessumformer	1375520000	750531	Weidmüller
-3EC1	1	Filterlüfter 105/120 m3/h, 230 V, 50/60 H	3239100	794992	Rittal
-2F1	1	FI TYP A 25/2 30MA 2TE	5SV3312-6	752783	Siemens AG
-2F2;-5F1	2	LEITUNGSSCHUTZSCHALTER 10KA 1+N-POL C10	5SY4510-7	795879	Siemens AG
-3F1	1	LS-SCHALTER 10KA 1+N-POL C2	5SY4502-7		Siemens AG
-6F1;-7F1	2	SITOP PSE200U	6EP19612BA41	751082	Siemens AG
-100F1	1	Motorschutzschalter	3RV1021-1KA15		Siemens AG
-5G1	1	Primär getaktetes Schaltnetzteil	PC-0124-100-0	772698	Bürkert
-4K1;-4K2	2	Relaismodul	2967060		Phoenix Contact
-8K1	1	SIRIUS SICHERHEITSSCHALTGERÄT GRUNDGERÄT STANDARD REIHE	3SK1111-2AB30	752799	Siemens AG
-1PE0	2	PE/N-Schiene 63 A	01928	753168	Wöhner
-8Q1;-8Q2	2	KOPPELSCHUETZ, AC-3, 5,5KW/400V, 1S+1OE, DC 24V,	3RT20242KB40		Siemens AG
-1S1	1	Lasttrennschalter, Iu 32 A Hauptschalter 3-polig	3LD3250-0TK13		Siemens AG
-8S1	1	SCHILDTRAEGER	3SU1900-0AJ10-0AA0		Siemens AG
-8S1;-8S2	2	HALTER	3SU1500-0AA10-0AA0		Siemens AG
-8S1	1	DRUCKTASTER, KLAR	3SU1000-0AB70-0AA0		Siemens AG
-8S2	1	NOT-HALT-UNTERLEGSCHILD, GELB	3SU1900-0BC31-0AT0		Siemens AG
-8S2	1	NOT-HALT-PILZDRUCKTASTER, 40MM, ROT	3SU1000-1HB20-0AA0		Siemens AG

Status	In Prüfung	SY07CS Versuchsstand Laborbehälter	Materialstückliste	 FLUID CONTROL SYSTEMS	Project No: 13421 ID-No: 00320547 WF-No: SN:	& BPC			
Date	22.03.2018					= 8615			
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Approved by						Dok ID PDF: 9560016088 Page 2			
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Materialstückliste / Parts list

Betriebsmittelkennzeichnung Equipment number	Menge Quantity	Beschreibung Description	Bestellnummer Order code	Materialnummer Materialnumber	Hersteller Manufacturer
-100U1	1	Frequenzumrichter 0,37kW	DAN.FC202PK37T4E20		Danfoss
-2X1;-3X1	3	Durchgangsklemme	3209549	750948	Phoenix Contact
	3	Durchgangsklemme	3209552	752342	Phoenix Contact
	5	Schutzleiter-Reihenklemme	3209565	750949	Phoenix Contact
-2X2	1	Steckdosen-Module, DE, für Schnittstellenklappen	2482400	792492	Rittal
-10X1;-12X1	24	Mehrstockklemme	3210512	751220	Phoenix Contact
-70X1;-71X1;-72X1;-73X1;-73X2;-77X1;-78X1;-79X1;-86X1	30	Mehrstockklemme	3210499	751224	Phoenix Contact
-75X1;-80X1	8	Mehrstockklemme	3210542	752516	Phoenix Contact
	1	Schutzleiterreihenklemme	3209594		Phoenix Contact
-X_28A2;-X_65A2;-X_66A2	3	büs Y Stecker	KT01-A-515B-15-00-00-Y-CON5PZ1	772420	Bürkert
-X_28A2.1;-X_30A2;-X_65A2.1;-X_66A2.1	4	büs Stecker, abgewinkelt	KT01-A-514B-15-00-00-STECKM12 JH36	772419	Bürkert
-75KH1;-75KH2	2	3/2-Wege-Magnetventil, direktwirkend	6014-TAABMFFMSGM82-6-024/DC-10	317318	Bürkert
-X_65A2.2	1	büs Abschluss, Stecker	KT01-A-519B-15-00-00-ST-BUSM12	772424	Bürkert
-X_66A3	1	büs Abschluss, Buchse	KT01-A-520B-15-00-00-BU-BUSM12	772425	Bürkert

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Materialstückliste

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Kabelliste / Cable list

Kabelname Cable name	Quelle (von) Source (from)	Ziel (bis) Target (to)	Kabeltyp Cable type	Anzahl Adern No.conductors	verwendete Adern Conductors used	Querschnitt [mm ²] Cross-section [mm ²]	Seite Page	Beschreibung Description
-1W1	-1XS1	-1X1	H07RN-F	5	5	1,5	&BFS/1.0	Einspeisung Spannungsversorgung 400VAC 16A
-2W2	-2X1	-2X2	ÖLFLEX® CLASSIC 110	3G	3	1,5	&BFS/2.1	
-3W0	-3A1	-3F1	ÖLFLEX® CLASSIC 110	3G	2	1,5	&BFS/3.1	
		-3X1						
-3W1	-3X1	-3EC1	ÖLFLEX® CLASSIC 110	3G	3	1,5	&BFS/3.2	
-4W1	-4X1	+SYS-4P1			2		&BFS/4.1	Beleuchtung Tank
-16W1	-10X1	-16A1	ÖLFLEX® CLASSIC 110	3G	2	1,5	&BFS/16.2	
-27W1	-27X1	-27A1	büs Kabel	4	4	0,34	&BFS/27.2	
-28W1	-27X1	-X_28A2.1	büs Kabel	4	4	0,34	&BFS/28.0	2x0,75+2x0,34
-34W1	-77X1	-28A1-28A6	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/34.2	Venile Typ 2301 / 2006; V17 Optional Sollwert
-34W2	-78X1	-28A1-28A6	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/34.4	Venile Typ 2301 / 2006; V18 Optional Sollwert
-35W1	-28A1-28A4	-35Y1		2	2	0,25	&BFS/32.3	
-36W1	-28A1-28A8	-50B1	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/36.2	PT100 I-7 783715
-36W2	-28A1-28A8	-51B1	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/36.3	PT100 I-9 783715
-37W1	-28A1-28A9	-52B1	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/37.2	PT100 I-11 783715
-37W2	-80X1	-28A1-28A9	ÖLFLEX® CLASSIC 115 CY	4	1	0,75	&BFS/37.3	Drucksensor 8323 I-3 552067
-38W1	-80X1	-28A1-28A10	ÖLFLEX® CLASSIC 115 CY	2	1	0,75	&BFS/38.2	Drucksensor 8323 I-8 551678
-38W2	-80X1	-28A1-28A10	ÖLFLEX® CLASSIC 115 CY	2	1	0,75	&BFS/38.3	Drucksensor 8323 I-15 551678
-39W1	-80X1	-28A1-28A11	ÖLFLEX® CLASSIC 115 CY	2	1	0,75	&BFS/39.2	Drucksensor 8323 I-17 552067
-39W2	-80X1	-28A1-28A11	ÖLFLEX® CLASSIC 115 CY	2	1	0,75	&BFS/39.3	Drucksensor 8323 I-19 417697 Optional
-40W1	-17A1	-28A1-28A12	ÖLFLEX® CLASSIC 115 CY	2	1	0,75	&BFS/40.2	8619 I-13 pH-Sonde 8201 554849
-40W2	-17A1	-28A1-28A12	ÖLFLEX® CLASSIC 115 CY	2	1	0,75	&BFS/40.3	8619 I-5 Leitfähigkeitssensor 8221 562420
-41W1	-77X1	-28A1-28A13	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/41.2	Venile Typ 2301 / 2006; V17 Optional Istwert
-41W2	-78X1	-28A1-28A13	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/41.3	Venile Typ 2301 / 2006; V18 Optional Istwert
-50W1	-50B1	+SYS-50B2	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/50.1	PT100 I-7 783715
-51W1	-51B1	+SYS-51B2	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/51.1	PT100 I-9 783715
-52W1	-52B1	+SYS-52B2	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/52.1	PT100 I-11 783715
-65W	-X_30A2	+SYS-X_65A2.1	büs Kabel	4	4	0,34	&BFS/30.5	2x0,75+2x0,34
-65W1			büs Kabel	4	0	0,34	&BFS/65.2	=
-66W1	+SYS-X_65A2.2	+SYS-X_66A2.1	büs Kabel	4	4	0,34	&BFS/66.2	=
-79W1	-79X1	-17A1	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/79.2	
-79W2	-79X1	-17A1	ÖLFLEX® CLASSIC 115 CY	4	2	0,75	&BFS/79.3	

&BPC/3

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Status	In Prüfung	SY07CS Versuchsstand Laborbehälter	Kabelliste	 FLUID CONTROL SYSTEMS	Project No: 13421 ID-No: 00320547 WF-No: SN:	& BMB
Date	22.03.2018					= 8615
Version	-					+
Approved by						Dok ID PDF: 9560016088 Page 1
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Kabelliste / Cable list

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Date	22.03.2018				ID-No:	00320547	= 8615
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Approved by					SN:		
Revised by	MMT				Dok ID PDF:	9560016088	Page
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Klemmenplan / Terminal list

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Klemmenplan



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Klemmenplan / Terminal list

Beschreibung Description	Leiste / Strip =8615+-10X1										Seite / Spalte Page / Column
	Kabelname	Kabeltyp	Zielbezeichnung	Anschluss	Klemme	Brücke	Zielbezeichnung	Anschluss	Kabelname	Kabeltyp	
Spannungsversorgung BÜS			-27X1	1	1		-6F1	1			&BFS/10.1
Spannungsversorgung BÜS			-18A1	24V	2						&BFS/10.1
Spannungsversorgung SPS			-19A1	US1	3		-6F1	2			&BFS/10.2
Spannungsversorgung SPS			-20A1	-X10:1							&BFS/10.2
Spannungsversorgung Allgemein			-20A1	-X12:1	4						&BFS/10.3
Spannungsversorgung Allgemein			-50B1	7	5		-6F1	3			&BFS/10.3
Spannungsversorgung Allgemein			-17A1	V+							&BFS/10.3
Spannungsversorgung Panel PC			-100U1								&BFS/10.4
=			-17A1	I+	6		-17A1	I+			&BFS/10.4
GND Allgemein			-8K1	13							&BFS/10.4
			-8K1	A1							&BFS/10.4
			-16A1	24V	7		-6F1	4			&BFS/10.5
			-16A1		8						&BFS/10.5
			-100U1	20							&BFS/10.5
			-27X1	4							&BFS/10.5
			-18A1	GND							&BFS/10.5
			-50B1	8	10						&BFS/10.5
			-17A1	V-							&BFS/10.5
			-19A1	GND1							&BFS/10.5
			-20A1	-X10:2	11						&BFS/10.5
			-20A1	-X10:6							&BFS/10.6
			-20A1	-X11:1							&BFS/10.6
			-8K1	A2	12						&BFS/10.6
			-8Q1	A2							
			-12X1	12							

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Klemmenplan / Terminal list

Beschreibung Description	Kabelname Kabeltyp	Leiste / Strip =8615+-12X1						Kabelname Kabeltyp	Anschluss	Seite / Spalte Page / Column
		Zielbezeichnung Anschluss	Klemme	Brücke	Zielbezeichnung Anschluss					
Spannungsversorgung Beleuchtung / Relais	-4K1	11	1		-7F1		1			&BFS/12.1
=		2	2							&BFS/12.1
Spannungsversorgung externe Ventile	-70X1	8	3		-7F1		2			&BFS/12.2
	-86X1	4								
	-71X1	4								
	-72X1	4								
Spannungsversorgung externe Ventile	-73X1	8	4		-73X2		8			&BFS/12.2
	-77X1	4								
	-78X1	1								
Spannungsversorgung externe Sensoren	-80X1	1	5		-7F1		3			&BFS/12.3
	-80X1	9								
	-85X1	1								
Spannungsversorgung externe Sensoren	-80X1	13								
	-80X1	5								
	-85X1	2	6		-80X1		17			&BFS/12.3
	-85X1	3								
	-85X1	4								
Reserve			7		-7F1		4			&BFS/12.4
=			8							&BFS/12.4
GND Allgemein	-4X1	1	9		-7F1		0V (2)			&BFS/12.4
	-70X1	7								
	-71X1	3								
GND Allgemein	-72X1	3	10							&BFS/12.5
	-73X2	7								
	-73X1	7								
	-77X1	3								
	-78X1	2	11							
GND Allgemein	-85X1	5								&BFS/12.5
	-85X1	6								
GND Allgemein	-85X1	7	12		-86X1		3			&BFS/12.6
	-10X1	12								
	-85X1	8								
	-1PE0	1								
	-13X1	1:1								

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Klemmenplan / Terminal list

Beschreibung Description	Kabelname Kabeltyp	Leiste / Strip =8615+-13X1						Kabelname Kabeltyp	Anschluss	Seite / Spalte Page / Column
		Zielbezeichnung	Anschluss	Klemme	Brücke	Zielbezeichnung				
GND ME24 Karten		-28A1-28A8	9	1		-12X1	12			&BFS/13.1
		-28A1-28A16	12							
		-28A1-28A8	12							
		-28A1-28A9	7							
		-28A1-28A9	9	2						&BFS/13.1
GND ME24 Karten		-28A1-28A18	9							
		-28A1-28A9	12							
		-28A1-28A18	12							
		-28A1-28A10	4							
GND ME24 Karten		-28A1-28A10	7	3						&BFS/13.2
		-28A1-28A10	9							
		-28A1-28A10	12							
GND ME24 Karten		-28A1-28A11	4	4						&BFS/13.2
		-28A1-28A11	7							
		-28A1-28A11	9							
GND ME24 Karten		-28A1-28A11	12	5						&BFS/13.3
		-28A1-28A12	4							
		-28A1-28A12	7							
GND ME24 Karten		-28A1-28A12	9	6						&BFS/13.3
		-28A1-28A12	12							
GND ME24 Karten		-28A1-28A13	9							
		-28A1-28A13	12	7						&BFS/13.3
		-28A1-28A14	9							
GND ME24 Karten		-28A1-28A14	12							
		-28A1-28A15	9	8						&BFS/13.4
GND ME24 Karten		-28A1-28A15	12							
		-28A1-28A16	9							

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Beschreibung Description	Leiste / Strip =8615+-27X1								Seite / Spalte Page / Column
	Kabelname	Kabeltyp	Zielbezeichnung	Anschluss	Klemme	Brücke	Zielbezeichnung	Anschluss	
	RD	-X_28A2.1	-X_28A2.1	2	1	•	-27A1		RD
							-10X1		
			-X_28A2.1	4	2	•	-27A1		
			-X_28A2.1	5	3	•	-27A1		
			-X_28A2.1	3	4	•	-27A1		
	BU	-10X1							GY
	WH	-27A1							(D)BU
	BK	-27A1							BK
	büs Kabel	-10X1							
	-27W1	-27A1							

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Klemmenplan / Terminal list

Klemmenplan / Terminal list

Leiste / Strip =8615+-73X1									Seite / Spalte Page / Column
Beschreibung Description	Kabelname	Kabeltyp	Zielbezeichnung	Anschluss	Klemme	Brücke	Zielbezeichnung	Anschluss	
	WH	+SYS-73XS1	1	1	•	-28A1-28A14	8	&BFS/73.1	
		+SYS-73XS1	2	2	•	-28A1-28A14	11		
		+SYS-73XS1	3	3	•	-28A1-28A15	8		
		+SYS-73XS1	4	4	•	-28A1-28A15	11		
		+SYS-73XS1	5	5	•	-28A1-28A19	8		
		+SYS-73XS1	6	6	•	-28A1-28A19	11		
		+SYS-73XS1	7	7	•	-12X1	10		
		+SYS-73XS1	8	8	•	-12X1	4		
			9						
	BN	+SYS-73W1	Rundbuchse	Anschluss	Klemme	Brücke	Zielbezeichnung	Anschluss	&BFS/73.1
	GN	+SYS-73XS1	1	1	•	-28A1-28A14	8	&BFS/73.1	
		+SYS-73XS1	2	2	•	-28A1-28A14	11		
		+SYS-73XS1	3	3	•	-28A1-28A15	8		
		+SYS-73XS1	4	4	•	-28A1-28A15	11		
		+SYS-73XS1	5	5	•	-28A1-28A19	8		
		+SYS-73XS1	6	6	•	-28A1-28A19	11		
		+SYS-73XS1	7	7	•	-12X1	10		
		+SYS-73XS1	8	8	•	-12X1	4		
			9						
	YE	+SYS-73XS1	1	1	•	-28A1-28A14	8	&BFS/73.2	
		+SYS-73XS1	2	2	•	-28A1-28A14	11		
		+SYS-73XS1	3	3	•	-28A1-28A15	8		
		+SYS-73XS1	4	4	•	-28A1-28A15	11		
		+SYS-73XS1	5	5	•	-28A1-28A19	8		
		+SYS-73XS1	6	6	•	-28A1-28A19	11		
		+SYS-73XS1	7	7	•	-12X1	10		
		+SYS-73XS1	8	8	•	-12X1	4		
			9						
	GY	+SYS-73XS1	1	1	•	-28A1-28A14	8	&BFS/73.2	
		+SYS-73XS1	2	2	•	-28A1-28A14	11		
		+SYS-73XS1	3	3	•	-28A1-28A15	8		
		+SYS-73XS1	4	4	•	-28A1-28A15	11		
		+SYS-73XS1	5	5	•	-28A1-28A19	8		
		+SYS-73XS1	6	6	•	-28A1-28A19	11		
		+SYS-73XS1	7	7	•	-12X1	10		
		+SYS-73XS1	8	8	•	-12X1	4		
			9						
	PK	+SYS-73XS1	1	1	•	-28A1-28A14	8	&BFS/73.2	
		+SYS-73XS1	2	2	•	-28A1-28A14	11		
		+SYS-73XS1	3	3	•	-28A1-28A15	8		
		+SYS-73XS1	4	4	•	-28A1-28A15	11		
		+SYS-73XS1	5	5	•	-28A1-28A19	8		
		+SYS-73XS1	6	6	•	-28A1-28A19	11		
		+SYS-73XS1	7	7	•	-12X1	10		
		+SYS-73XS1	8	8	•	-12X1	4		
			9						
	BU	+SYS-73XS1	1	1	•	-28A1-28A14	8	&BFS/73.2	
		+SYS-73XS1	2	2	•	-28A1-28A14	11		
		+SYS-73XS1	3	3	•	-28A1-28A15	8		
		+SYS-73XS1	4	4	•	-28A1-28A15	11		
		+SYS-73XS1	5	5	•	-28A1-28A19	8		
		+SYS-73XS1	6	6	•	-28A1-28A19	11		
		+SYS-73XS1	7	7	•	-12X1	10		
		+SYS-73XS1	8	8	•	-12X1	4		
			9						
	RD	+SYS-73XS1	1	1	•	-28A1-28A14	8	&BFS/73.2	
		+SYS-73XS1	2	2	•	-28A1-28A14	11		
		+SYS-73XS1	3	3	•	-28A1-28A15	8		
		+SYS-73XS1	4	4	•	-28A1-28A15	11		
		+SYS-73XS1	5	5	•	-28A1-28A19	8		
		+SYS-73XS1	6	6	•	-28A1-28A19	11		
		+SYS-73XS1	7	7	•	-12X1	10		
		+SYS-73XS1	8	8	•	-12X1	4		
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Versuchsauftrag Laborbehälter

Klemmenplan



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Beschreibung Description	Kabelname	Kabeltyp	Zielbezeichnung	Anschluss	Klemme	Brücke	Zielbezeichnung	
				1	•	-17A1	D+	&BFS/79.1
				2	•	-17A1	D-	&BFS/79.1
				3	•	-17A1	D+	&BFS/79.1
				4	•	-17A1	D-	&BFS/79.2
				5	•	-17A1	I+	&BFS/79.2
				6	•	-17A1	I-	&BFS/79.3
				7	•	-17A1	I+	&BFS/79.3
				8	•	-17A1	I-	&BFS/79.4
				9	•	-17A1	T+	&BFS/79.4
				10	•	-17A1	T-	&BFS/79.4
				11	•	-17A1	T+	&BFS/79.4
				12	•	-17A1	T-	&BFS/79.4
				13	•	-17A1	T+	&BFS/79.5
				14	•	-17A1	T-	&BFS/79.5
				15	•	-17A1	T+	&BFS/79.5
				16	•	-17A1	T-	&BFS/79.5
				17	•			&BFS/79.5
				18	•			&BFS/79.6
			-17A1	FE	19	•	-17A1	&BFS/79.6
			-17A1	FE	20	•	-17A1	&BFS/79.6

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Vorlesung 10

Klemmenplan



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