



ENERGY EFFICIENCY

**CONTROL SYSTEM
KULE 2**

ID 23006

DATE 20.02.2023

TOTAL PAGE

M31 AHU ÖN ISITMA KULE2

Escon Energy

Zake Enginnering

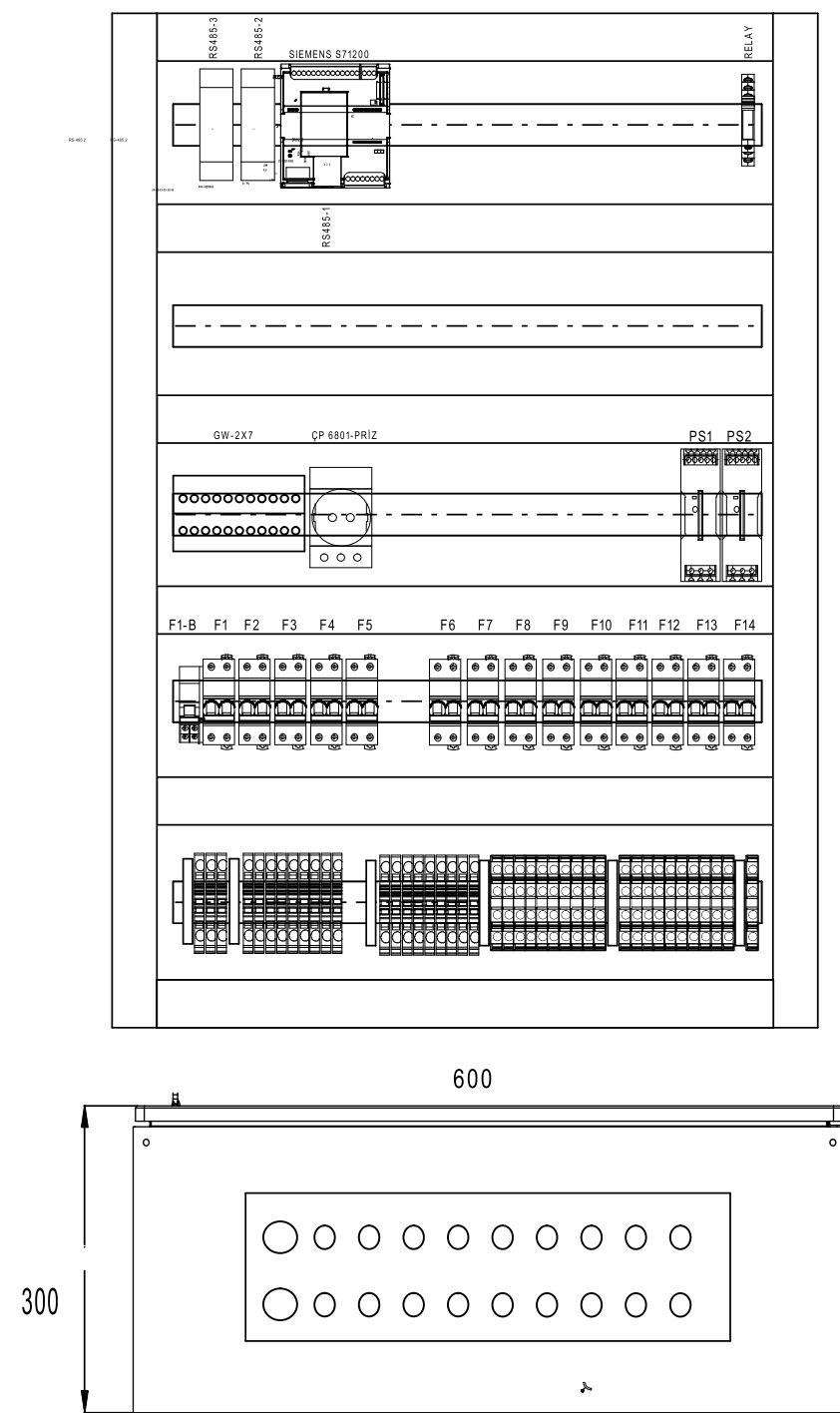
Renault Oyak

See Elektrical V8.2

A list of materials

Tag	Type (Cat. No.)	Series	Description	Product	Price	Lin. Weight	Outer Diam.	Voltage	Current	Supplier
PLC		6ES7211-1AE40-0XB0	S7-1200 CPU 1211C DC/DC/DC (6DI 4DQ 2AI)	SIEMENS	1					
RS485 1		6ES7241-1CH30-1XB0	Modbus kaseti (Üsten)	SIEMENS	1					
RS-485 2		6ES7241-1CH32-0XB0	Modbus Haberlesme Modül(Yandan)	SIEMENS	1					
RS-485 3		6ES7241-1CH32-0XB0	Modbus Haberlesme Modül(Yandan)	SIEMENS	1					
F1		A9F74210	C10A-2P	SCHNEIDER	1					
F2		A9F74203	C4A - 2P	SCHNEIDER	1					
F3		A9D34606	KACAK AKIM 2A (30mA)	SCHNEIDER	1					
F4		A9F74202	C2A-2P	SCHNEIDER	1					
F5		A9F74202	C2A-2P	SCHNEIDER	1					
F6		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F7		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F8		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F9		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F10		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F11		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F12		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F13		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F14		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F15		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F16		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F17		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F18		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F19		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F20		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F21		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F22		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F23		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F24		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F25		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F26		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
F27		2562730000-WSI6	SIGORTALI KLEMENS	WEIDMULLER	1					
R1		1122770000	24VOLT SLIM ROLE 6A	WEIDMULLER	1					
F1-B		A9A26476	ACTIRMA BOBIN	SCHNEIDER	1					
LAMP		ACK AN10	Ack 7,5W 6500K Beyaz Merkür LED Bant Armatür AN10-00730	ACK	1					
S1		VCF0	LOTO ANAHTAR	SCHNEIDER	1					
S3		L5K13MIP311	KAPAK SWITCH-ACISAL HAREKETLİ 14 MM. PLS. MAKARALI KOL	EMAS	1					
S2		XB4BS8442	T.MEKANİK PLS ACİL STOP KIRMIZI	SCHNEIDER	1					
V1		9KV-AA120-0250	ANALOG VOLTMETRE	SCHNEIDER	1					
BARA1		GW-2X7	2 KUTUP DAGITIM BARASI 24 VOLT	GWEST	1					
BARA2		GW-2X7	2 KUTUP DAGITIM BARASI 220VOLT	GWEST	1					

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Modification #1							Cre. Date:	11.03.2023		
Modification #2						Sheet Created by:				
Modification #3										




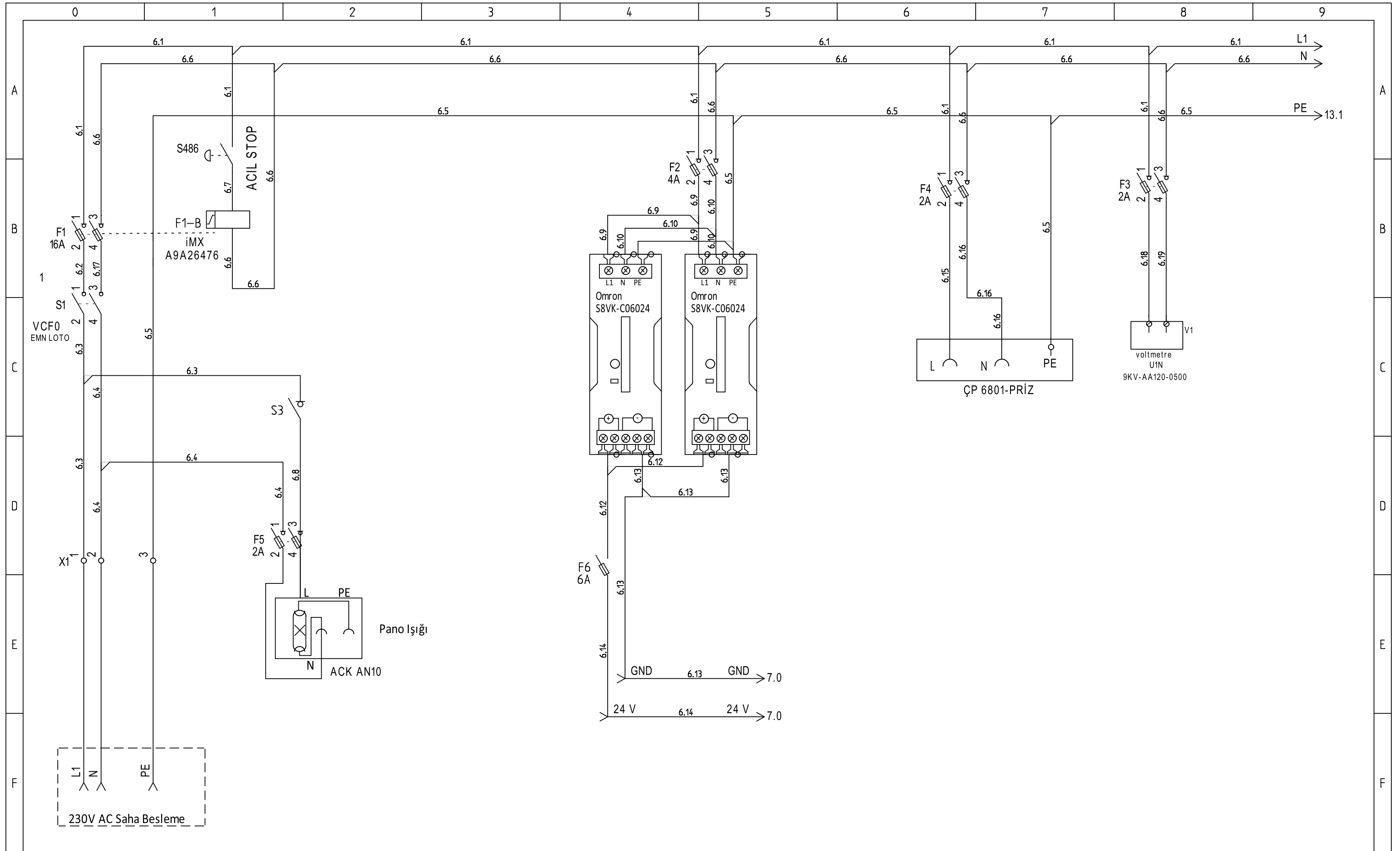
List of Documents

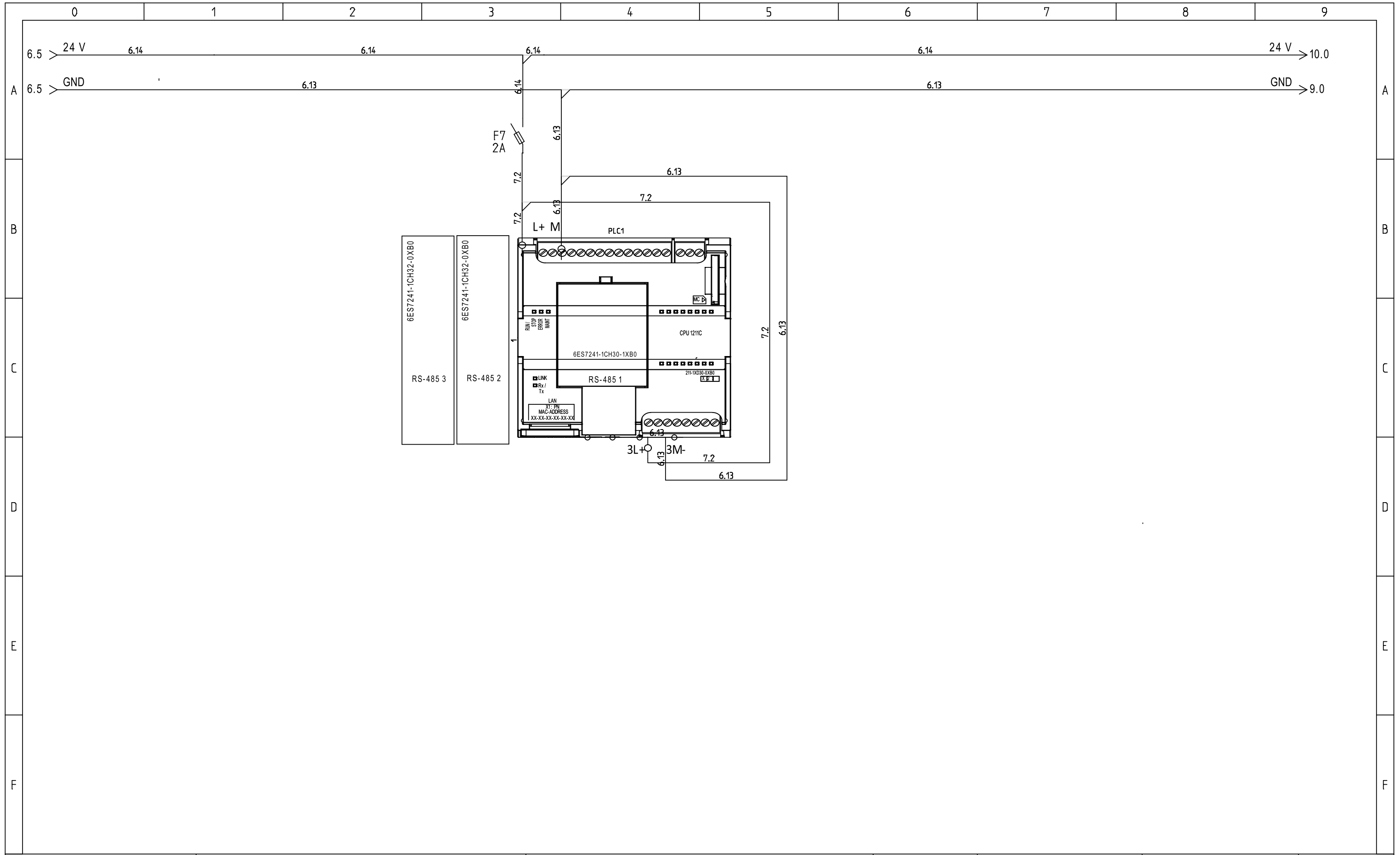
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1	Project cover sheet		
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2	Circuit diagrams (EN/IEC)	A LIST OF MATERIALS 2	
3	Circuit diagrams (EN/IEC)	DESIGN	
4	Circuit diagrams (EN/IEC)	LIST OF DOCUMENTS 1	
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7	Circuit diagrams (EN/IEC)	M30 S71200 PLC	
8	Circuit diagrams (EN/IEC)	HABERLESME	
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19	Circuit diagrams (EN/IEC)	C31020 AHU-2	
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25	Circuit diagrams (EN/IEC)	C31030 AHU-3	
26	Circuit diagrams (EN/IEC)	C31030 AHU-3 ANALOG INPUT	
27	Circuit diagrams (EN/IEC)	C31030 AHU-3	

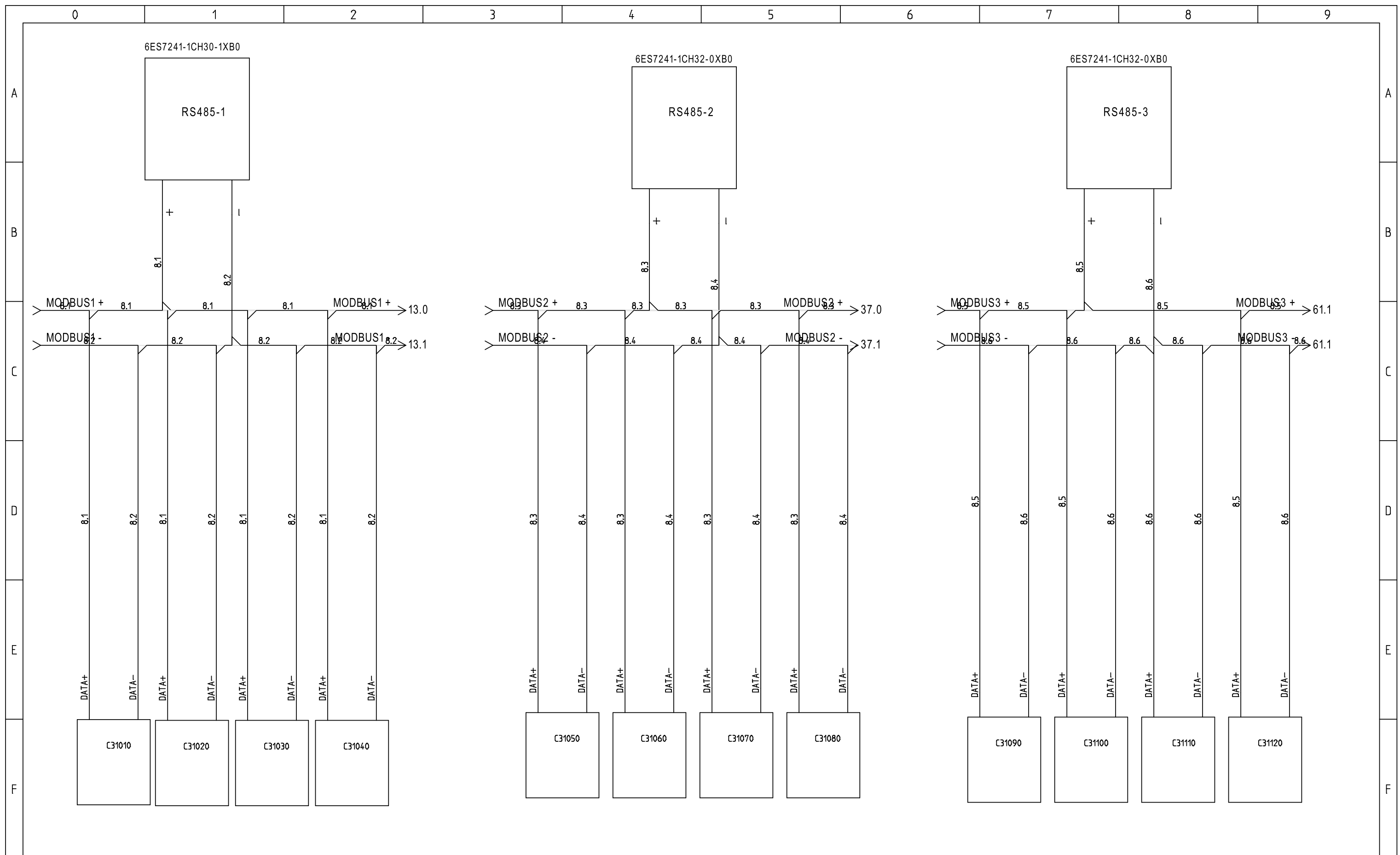
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31	Circuit diagrams (EN/IEC)	C31040 AHU-4	
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34	Circuit diagrams (EN/IEC)	C31040 A LIST OF MATERIALS	
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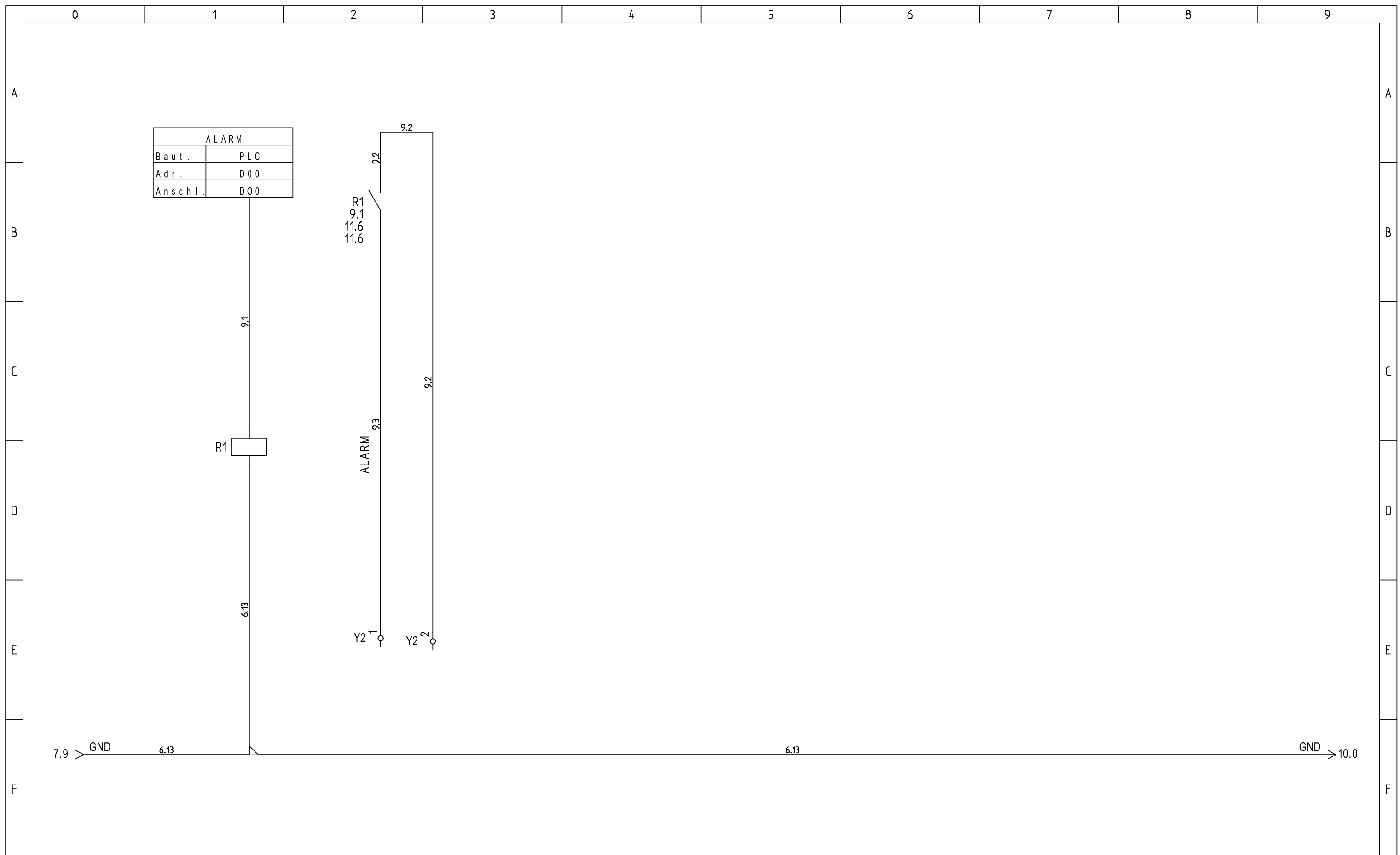
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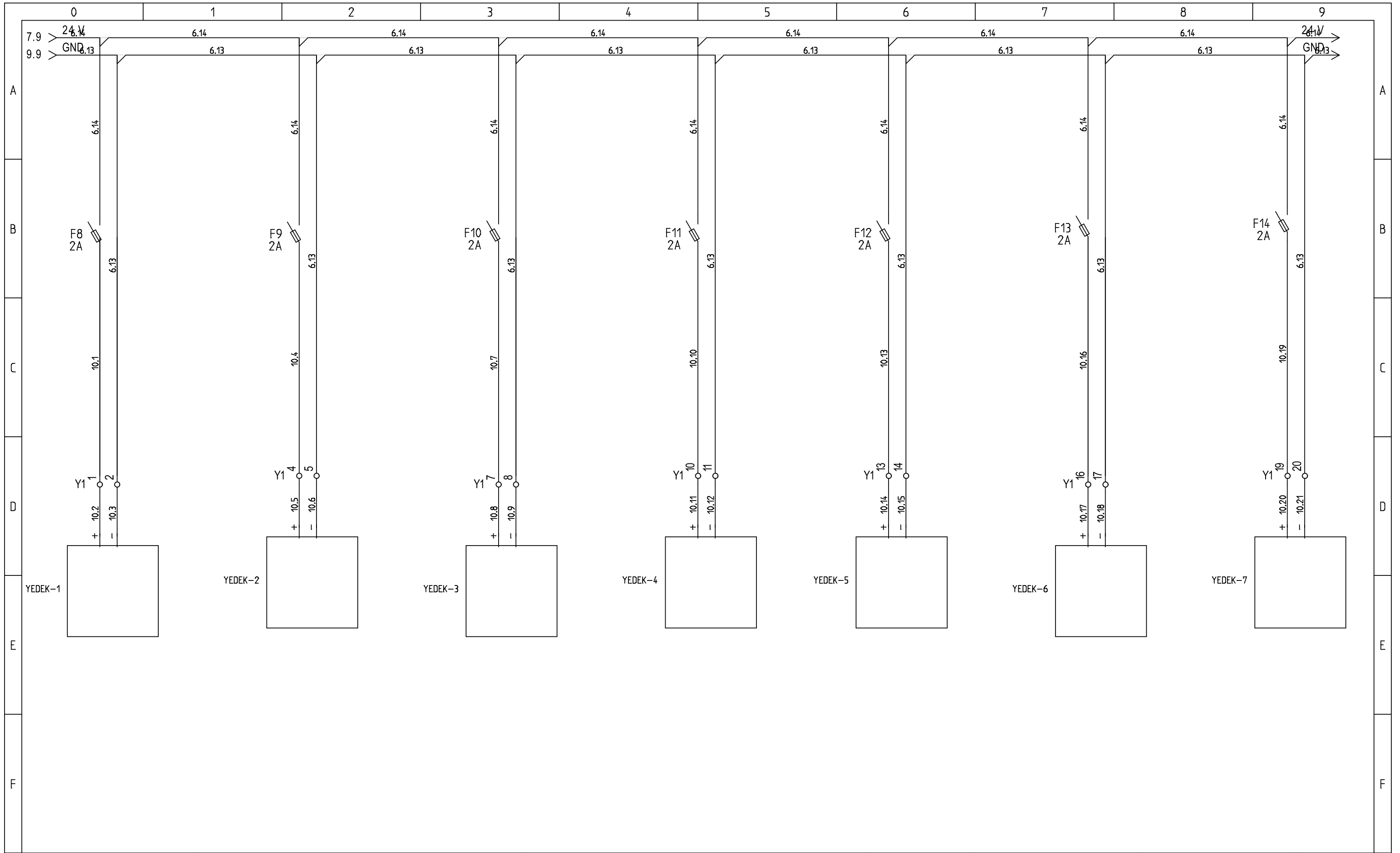
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59	Circuit diagrams (EN/IEC)	C31080 TERMINAL LISTS					
60	Circuit diagrams (EN/IEC)	COMMUNICATIONBOX AHU 5					
61	Circuit diagrams (EN/IEC)	C31090 AHU-5					
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64	Circuit diagrams (EN/IEC)	C31090 A LIST OF MATERIIALS					
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70	Circuit diagrams (EN/IEC)	C31100 A LIST OF MATERIIALS					
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72	Circuit diagrams (EN/IEC)	COMMUNICATIONBOX AHU-26					
73	Circuit diagrams (EN/IEC)	C31110 AHU-26					
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75	Circuit diagrams (EN/IEC)	C31110 AHU-26					
76	Circuit diagrams (EN/IEC)	C31110 A LIST OF MATERIIALS					
77	Circuit diagrams (EN/IEC)	C31110 TERMINAL LISTS					
78	Circuit diagrams (EN/IEC)	COMMUNICATIONBOX AHU-9					
79	Circuit diagrams (EN/IEC)	C31120 AHU-9					
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M30 DC KONTROL

Proje:
M3I KULE2

Tarih:
7.03.2023

Proje Çizen:
SEMİH SOY

Rev:
Proje Id:

Onaylayan:
MELİH CAN ÖZTÜRK

Toplam Sayfa:
83

Sayfa:
10

Sonraki Sayfa:
11

Terminal Strip

Y1

			No.	Term.	Sheet	Line			
YEDEK - 1 : +	7.3	7.3	1	○	7	0	7.1	7.1	F10:2
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YEDEK - 2 : +	7.7	7.7	3	○	7	2	7.5	7.5	F11:2
YEDEK - 2 : +	7.8	7.8	4	○	7	2	7.6	7.6	F11:2
YEDEK - 3 : +	7.11	7.11	5	○	7	3	7.9	7.9	F12:2
YEDEK - 3 : +	7.12	7.12	6	○	7	3	7.10	7.10	F12:2
YEDEK - 4 : +	7.15	7.15	7	○	7	5	7.13	7.13	F13:2
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YEDEK - 6 : +	7.24	7.24	12	○	7	7	7.22	7.22	F15:2
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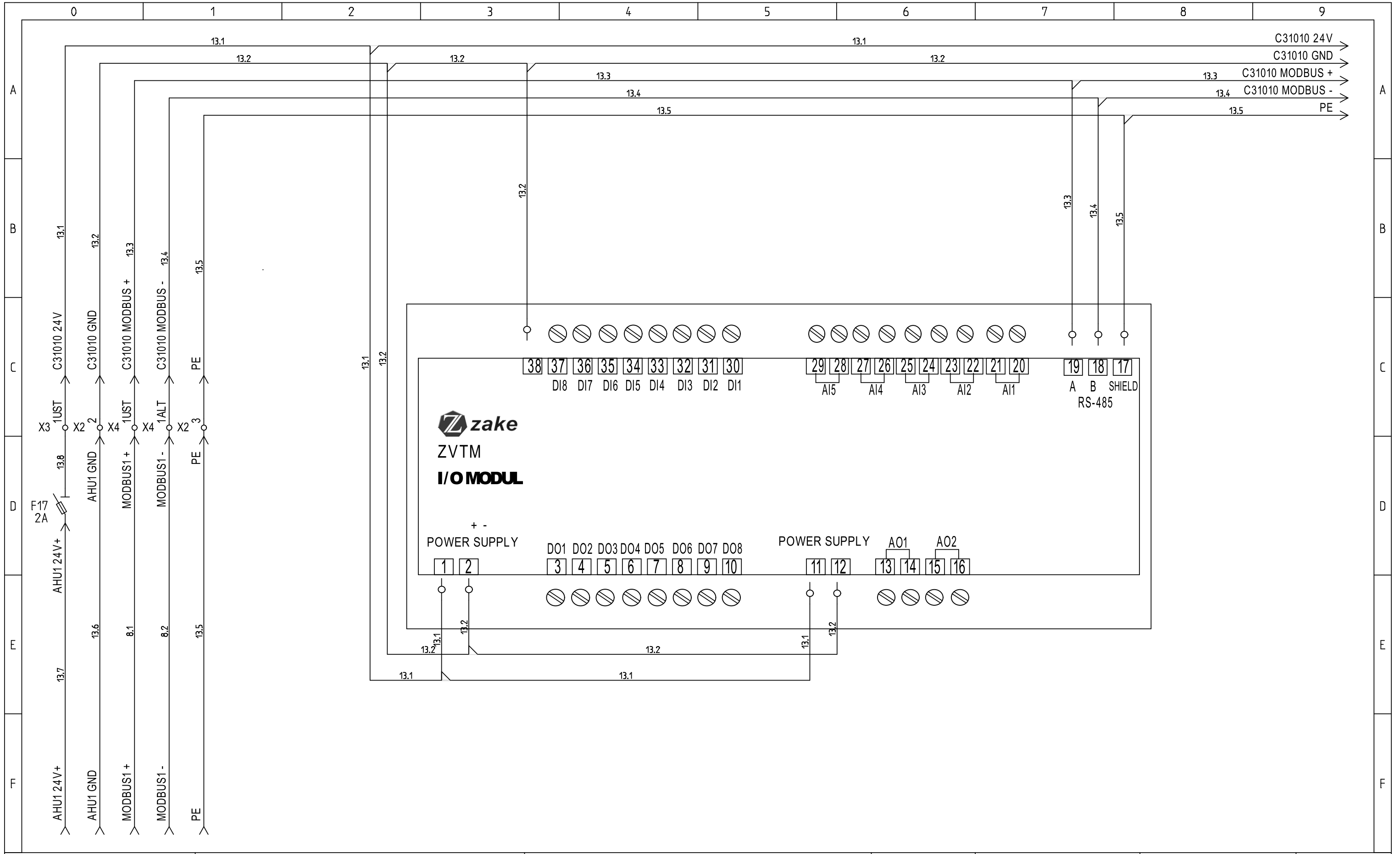
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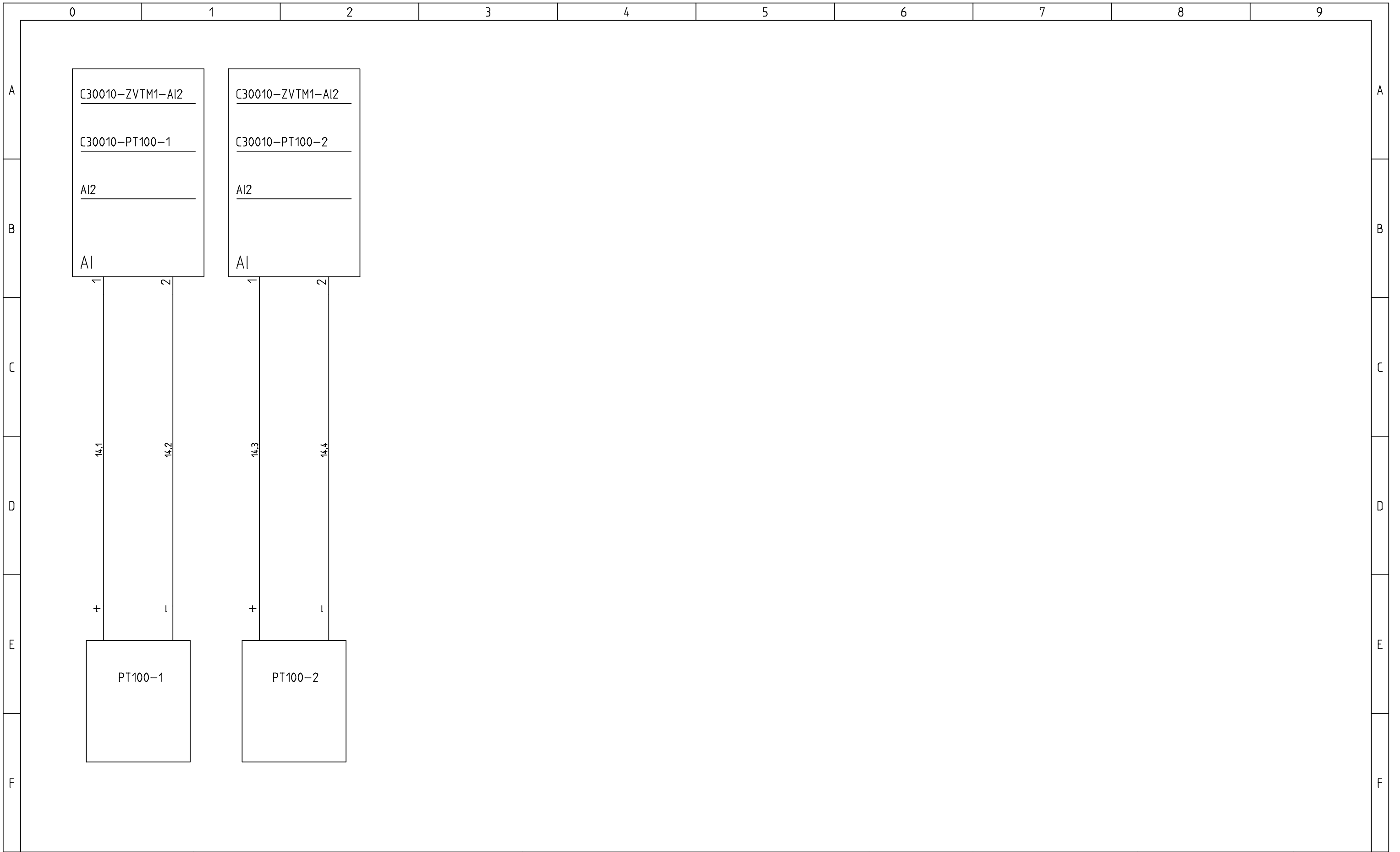
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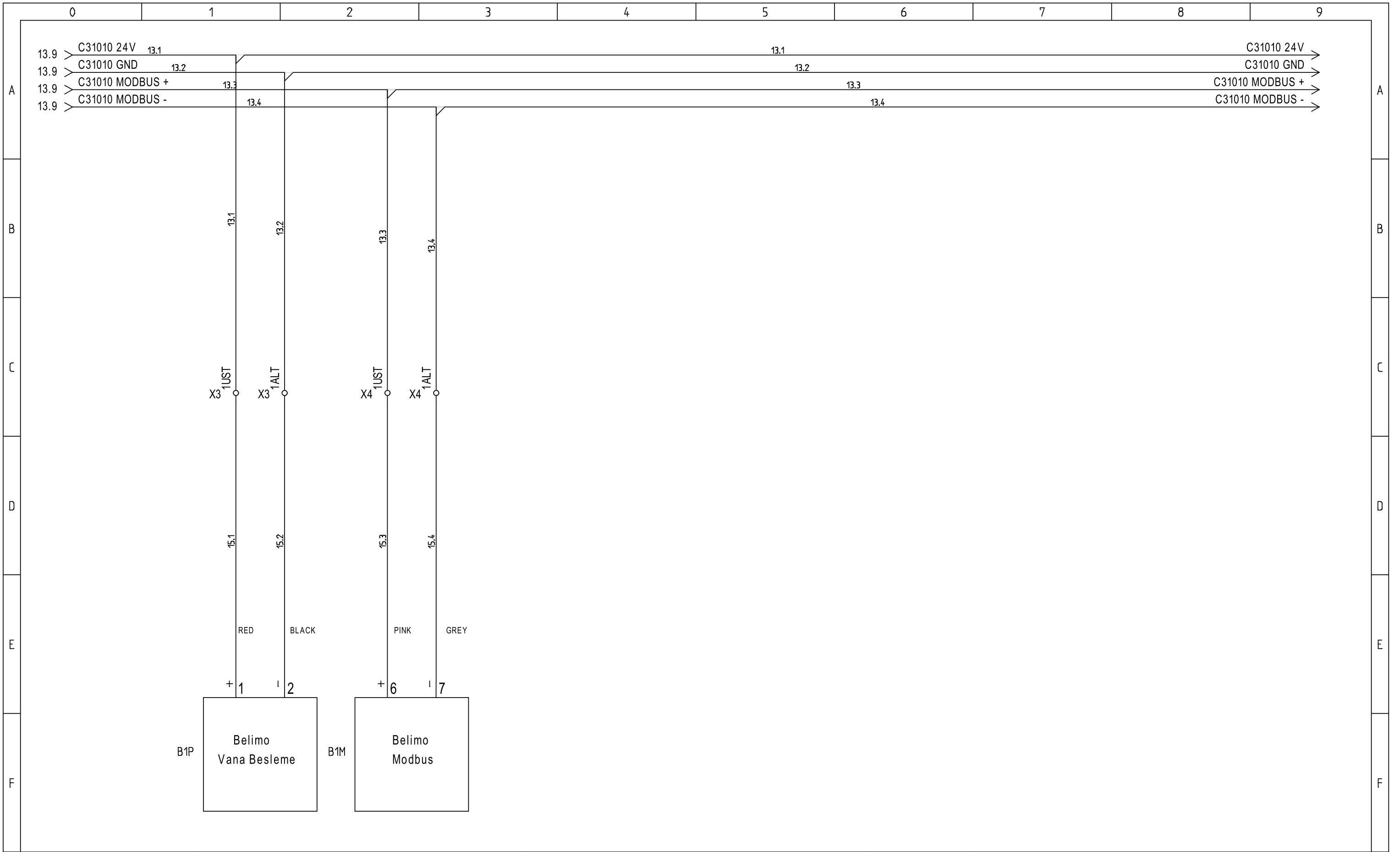
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	○			3.4	3.4	S2:4

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COMMUNICATION BOX AHU-1
C31010







C31010 AHU-01

Proje:
M31 KULE2

Proje Çizen:
SEMİH SOY

Onaylayan:
MELİH CAN ÖZTÜRK

Sayfa:
15

Tarih:
8.03.2023

Rev:

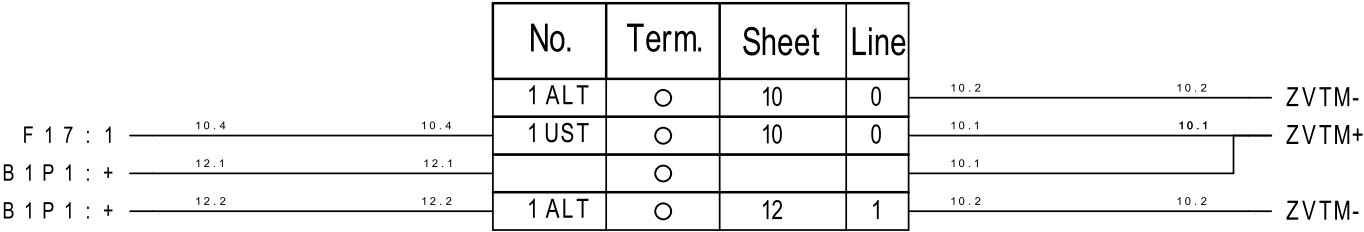
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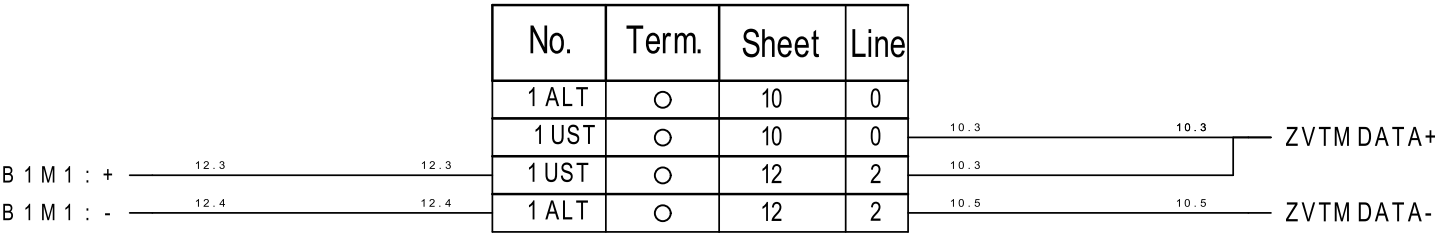
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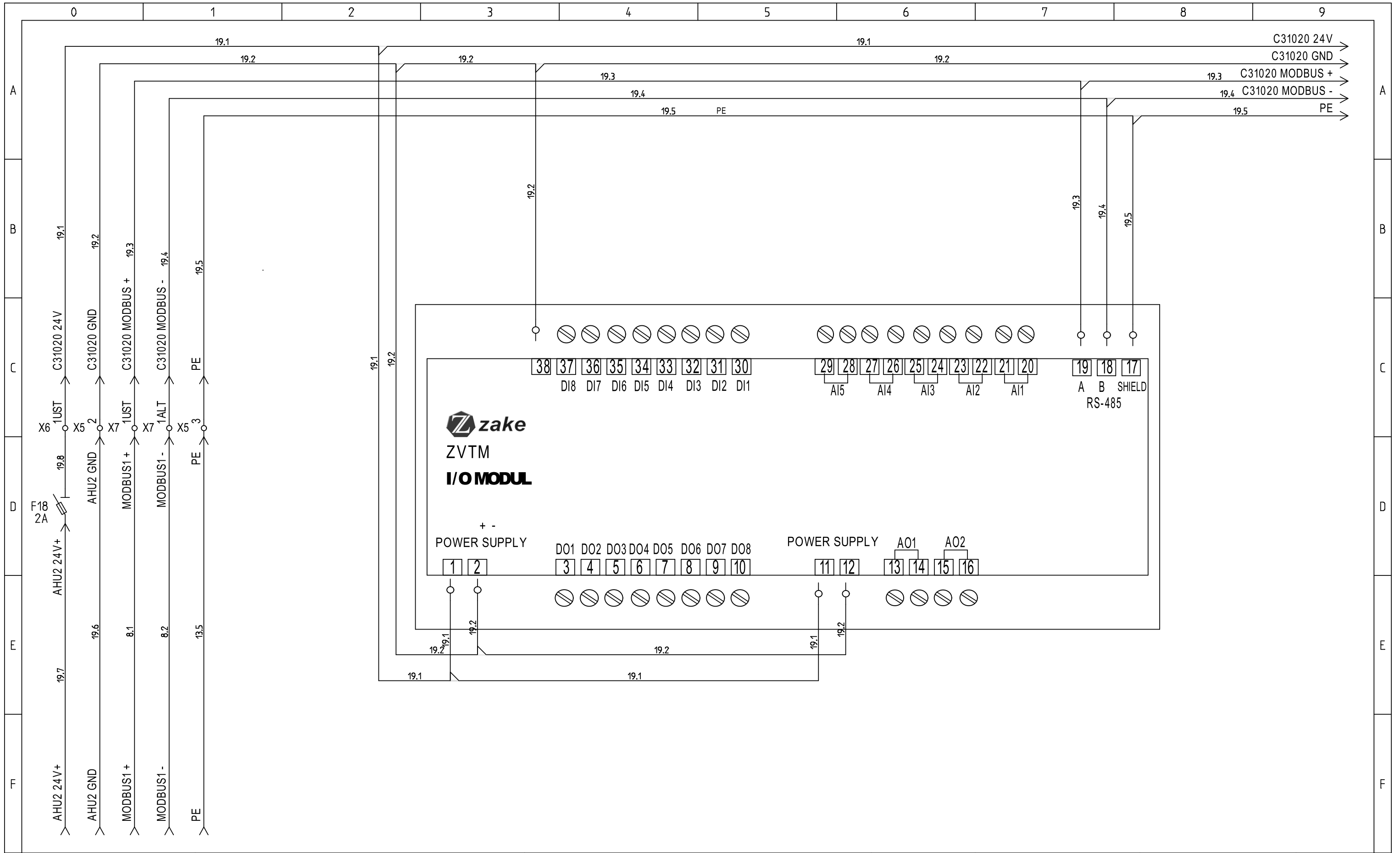


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COMMUNICATION BOX AHU-2
C31020



C31020 AHU-2

Proje:
M31 KULE2

Proje Çizen:
SEMİH SOY

Onaylayan:
MELİH CAN ÖZTÜRK

Sayfa:
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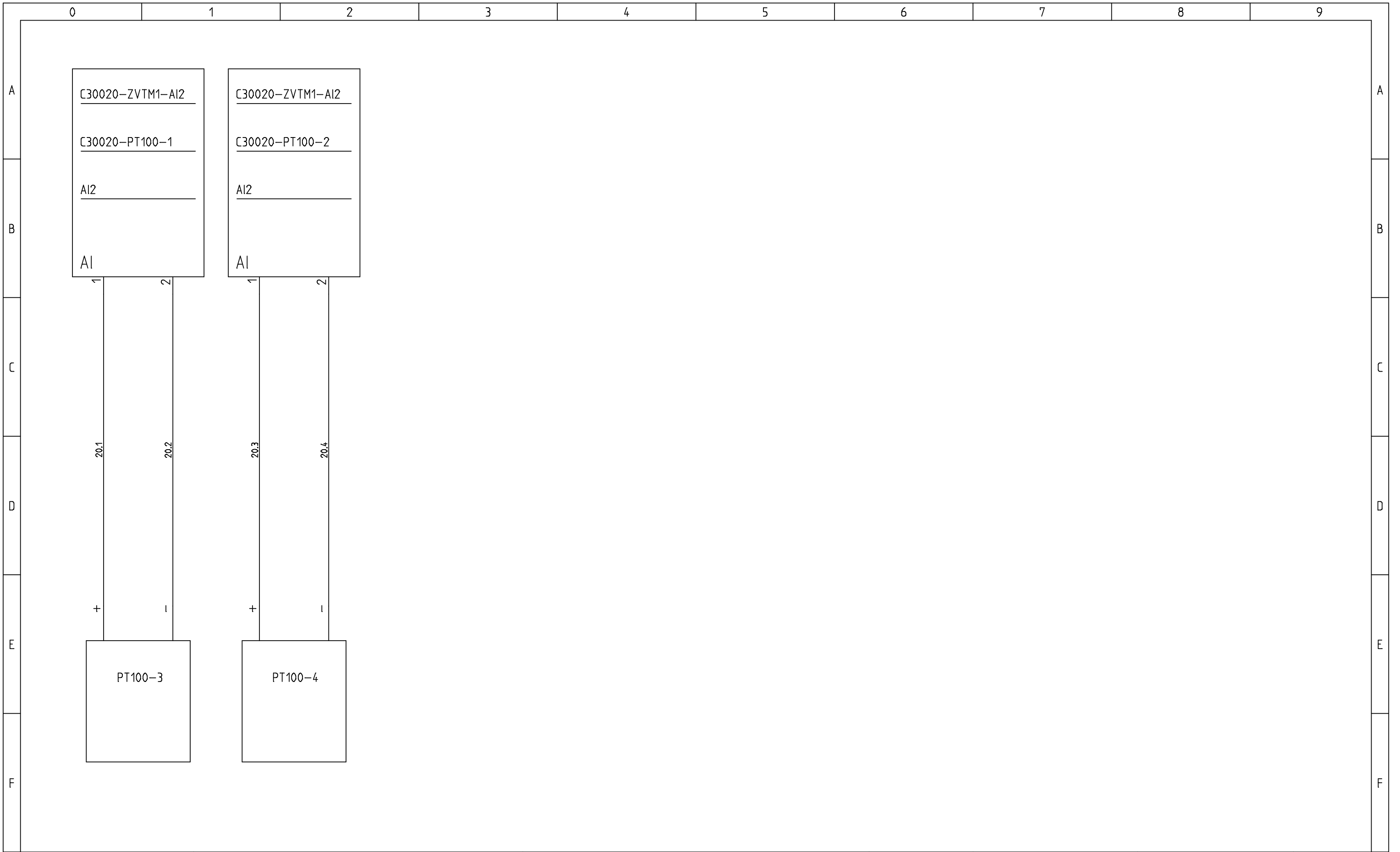
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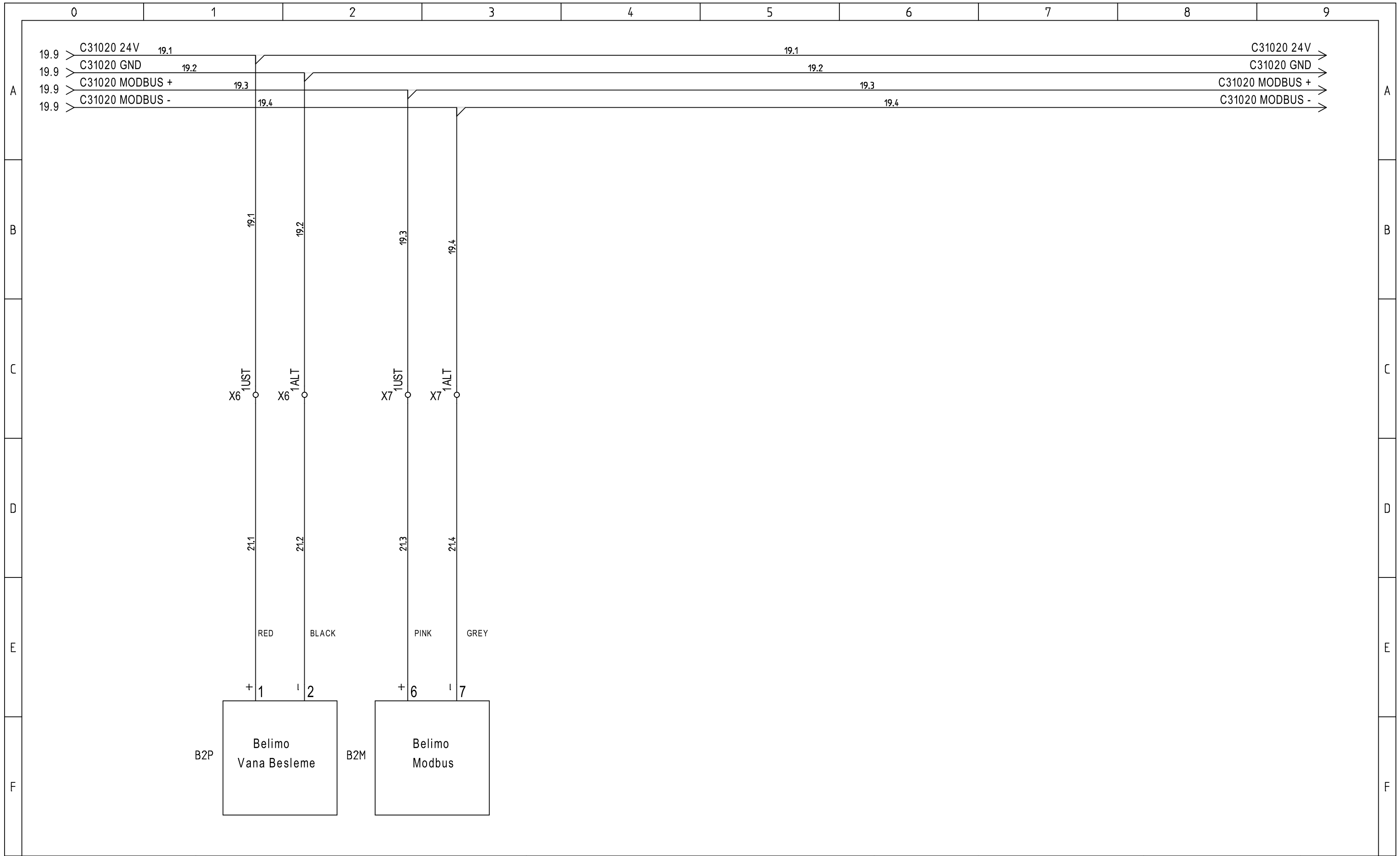
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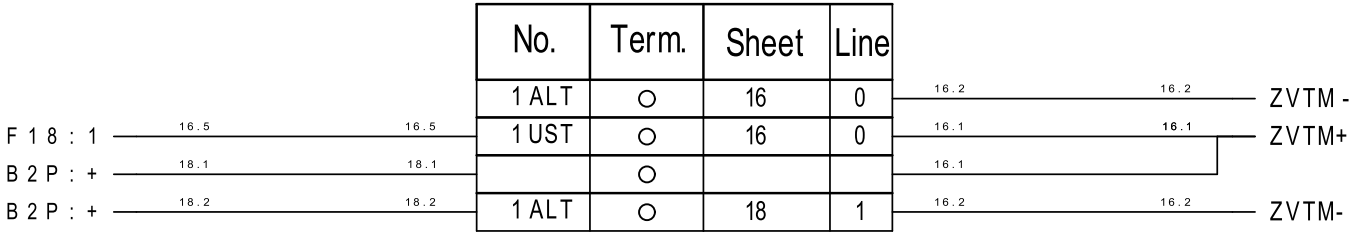
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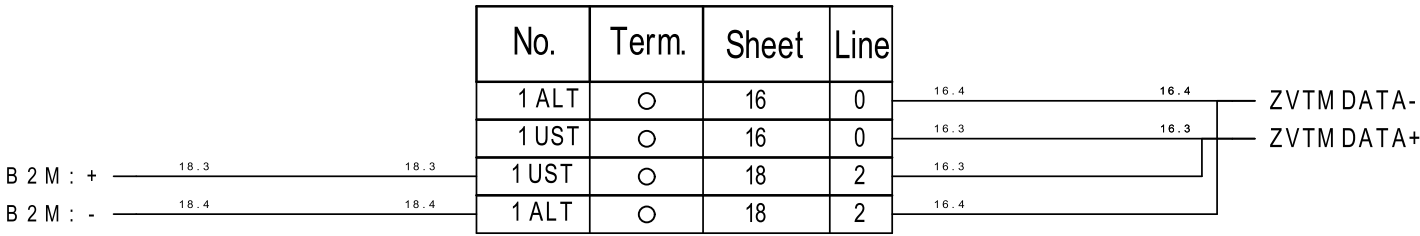


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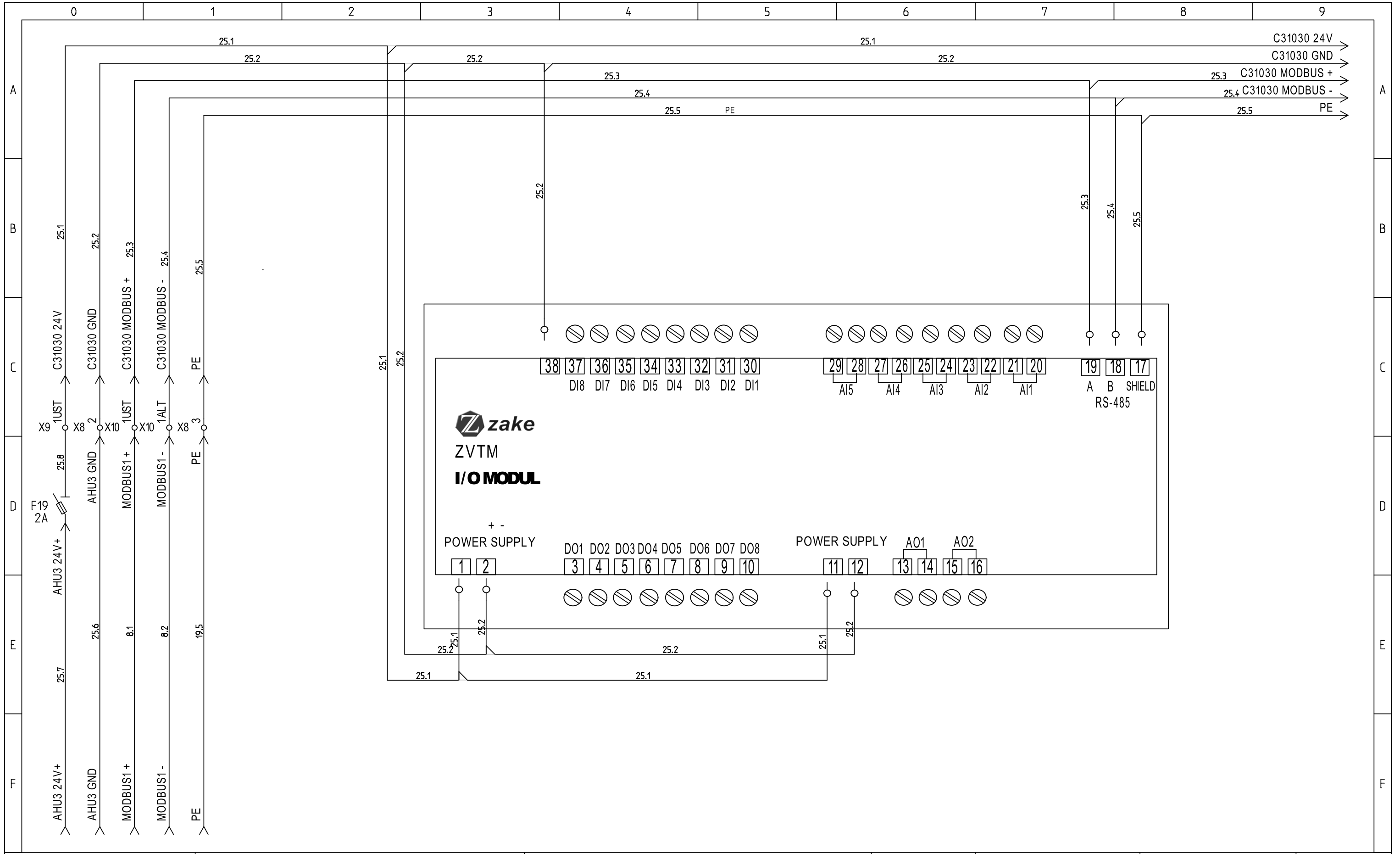


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Modification #3						

COMMUNICATION BOX AHU-3
C31030



C31030 AHU-3

Proje:
M31 KULE2

Proje Çizen:
SEMİH SOY

Onaylayan:
MELİH CAN ÖZTÜRK

Sayfa:
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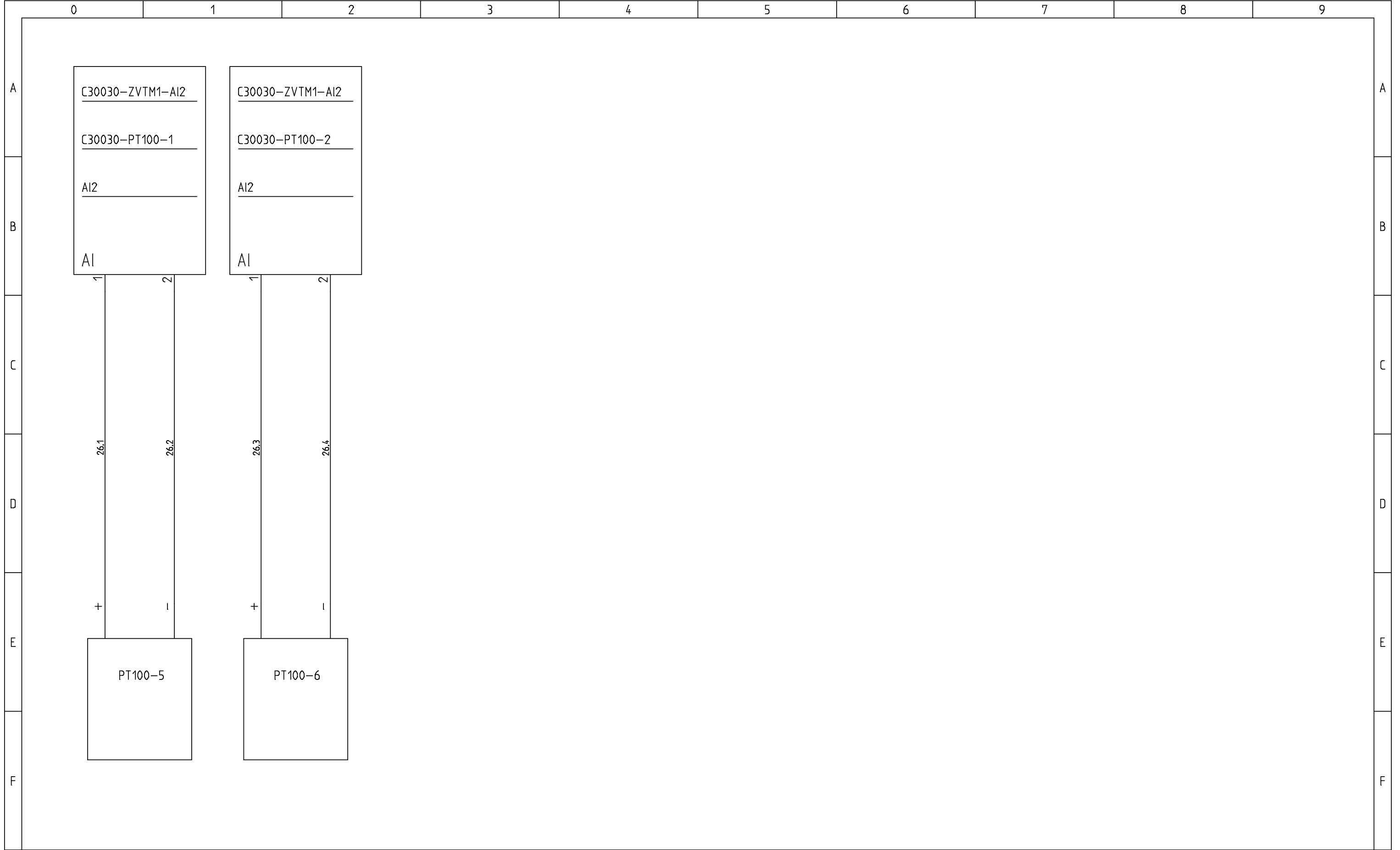
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8.03.2023

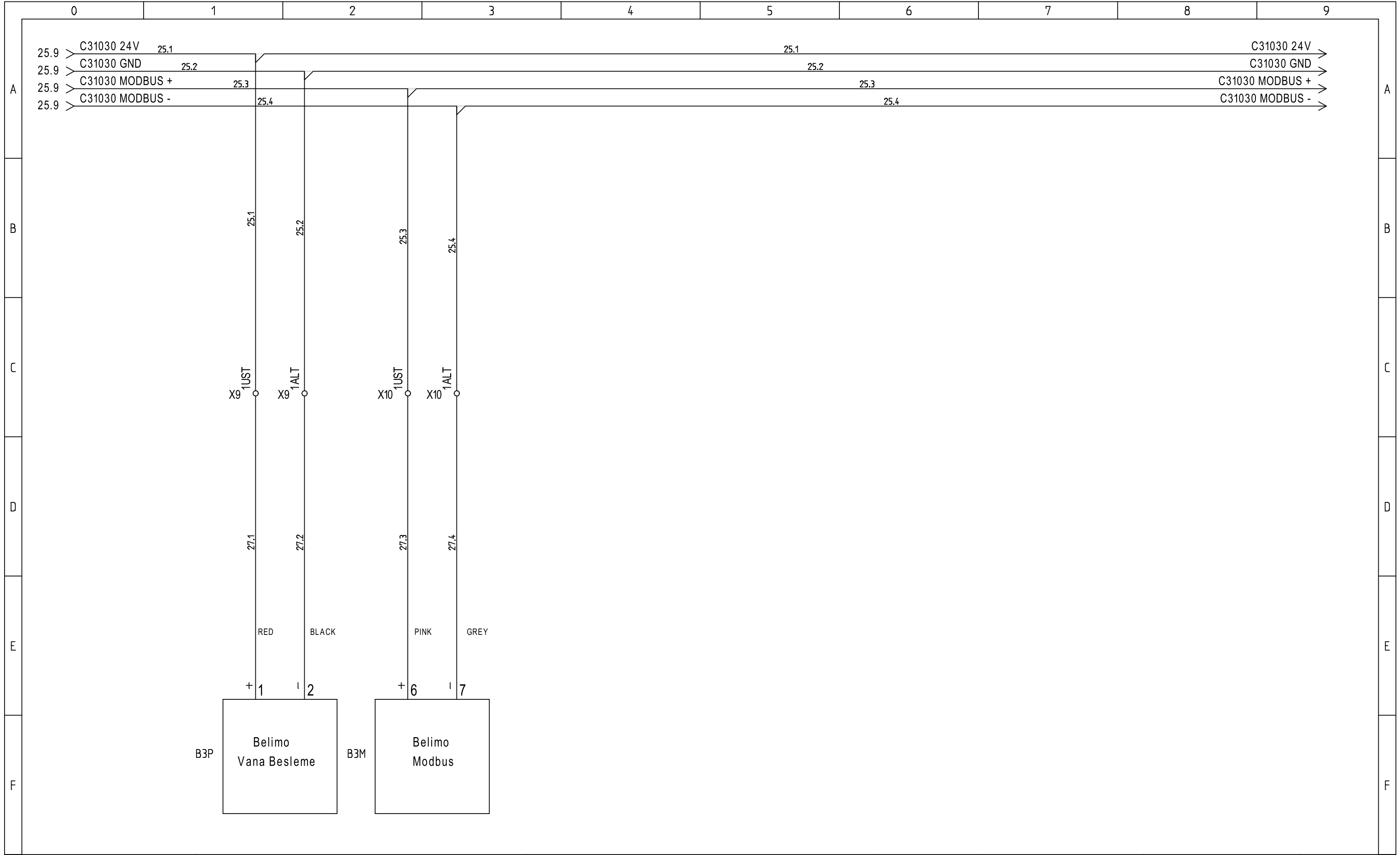
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Proje Id:

Toplam Sayfa:
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Sonraki Sayfa:
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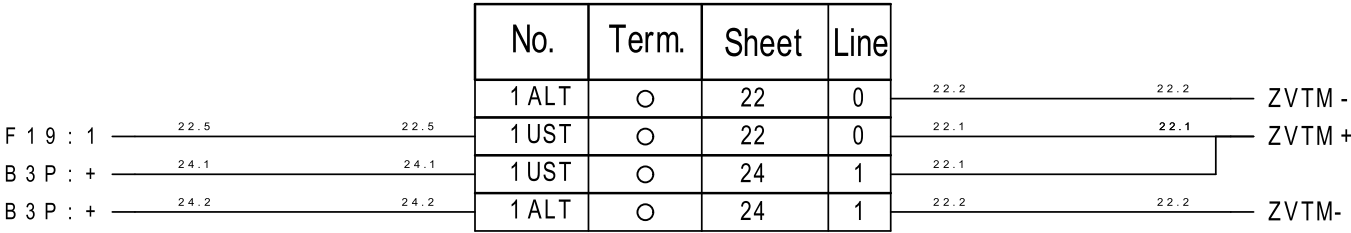


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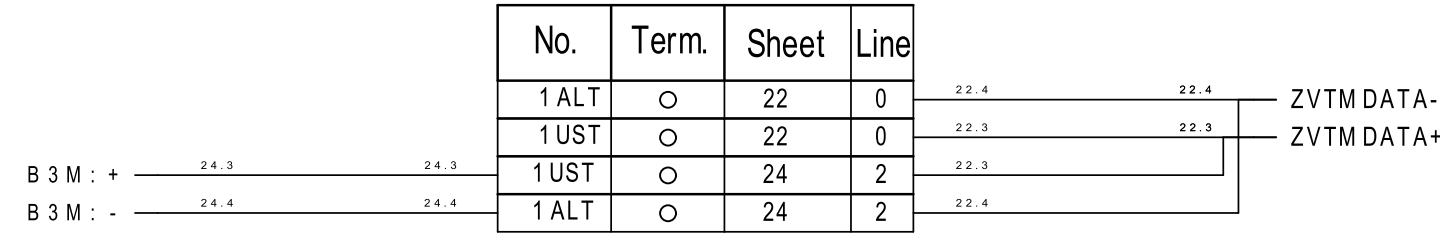
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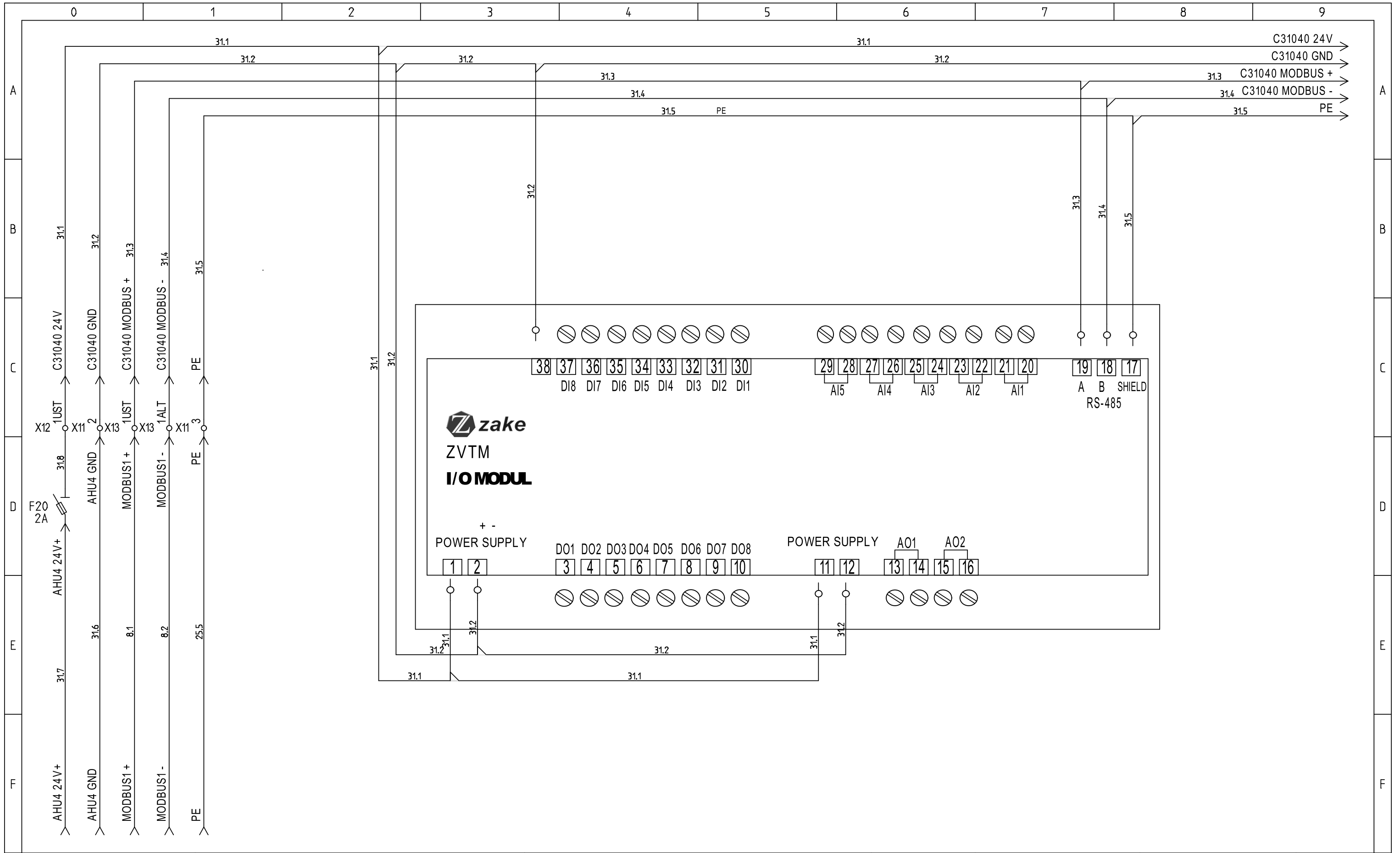


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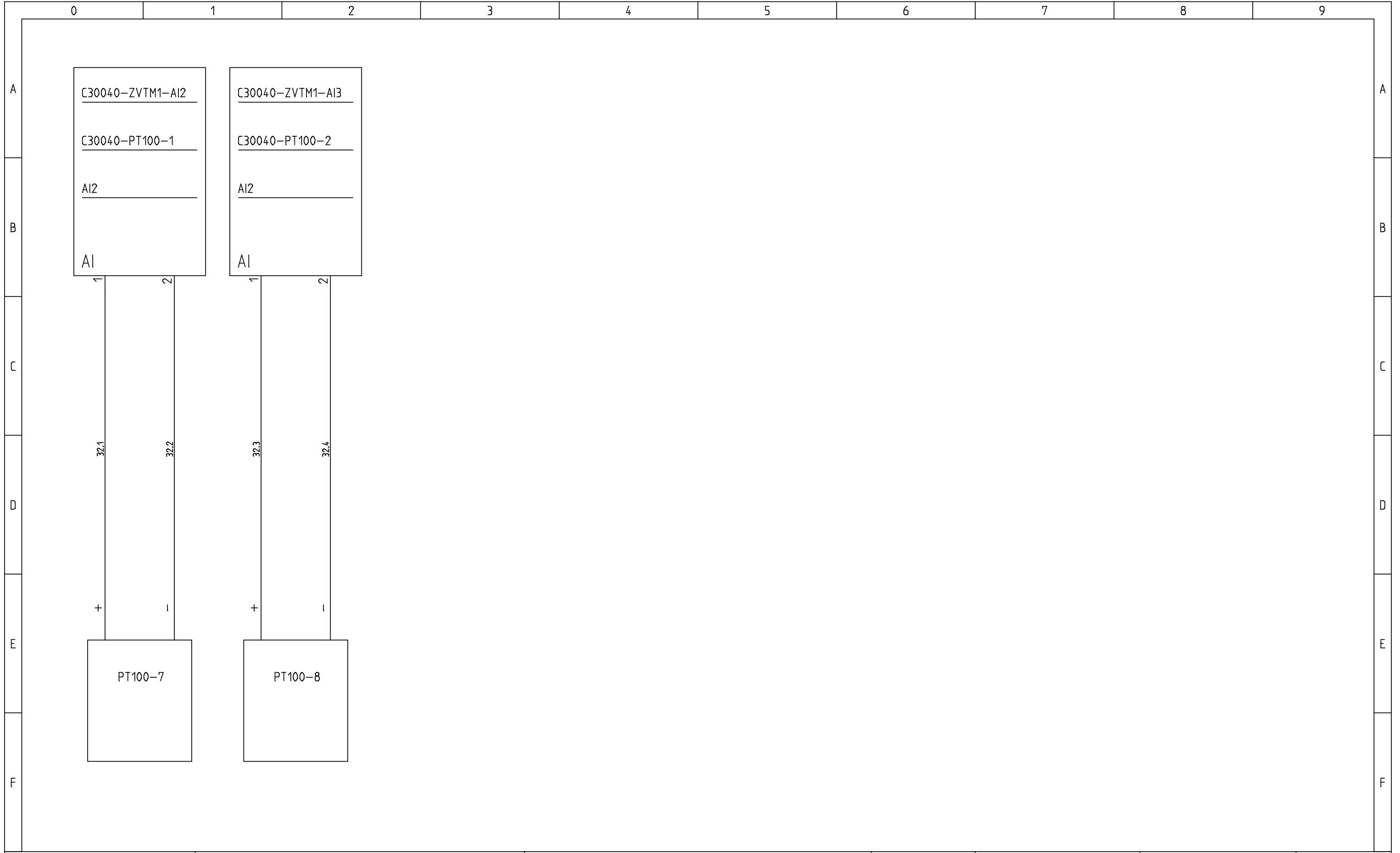
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Modification #3						

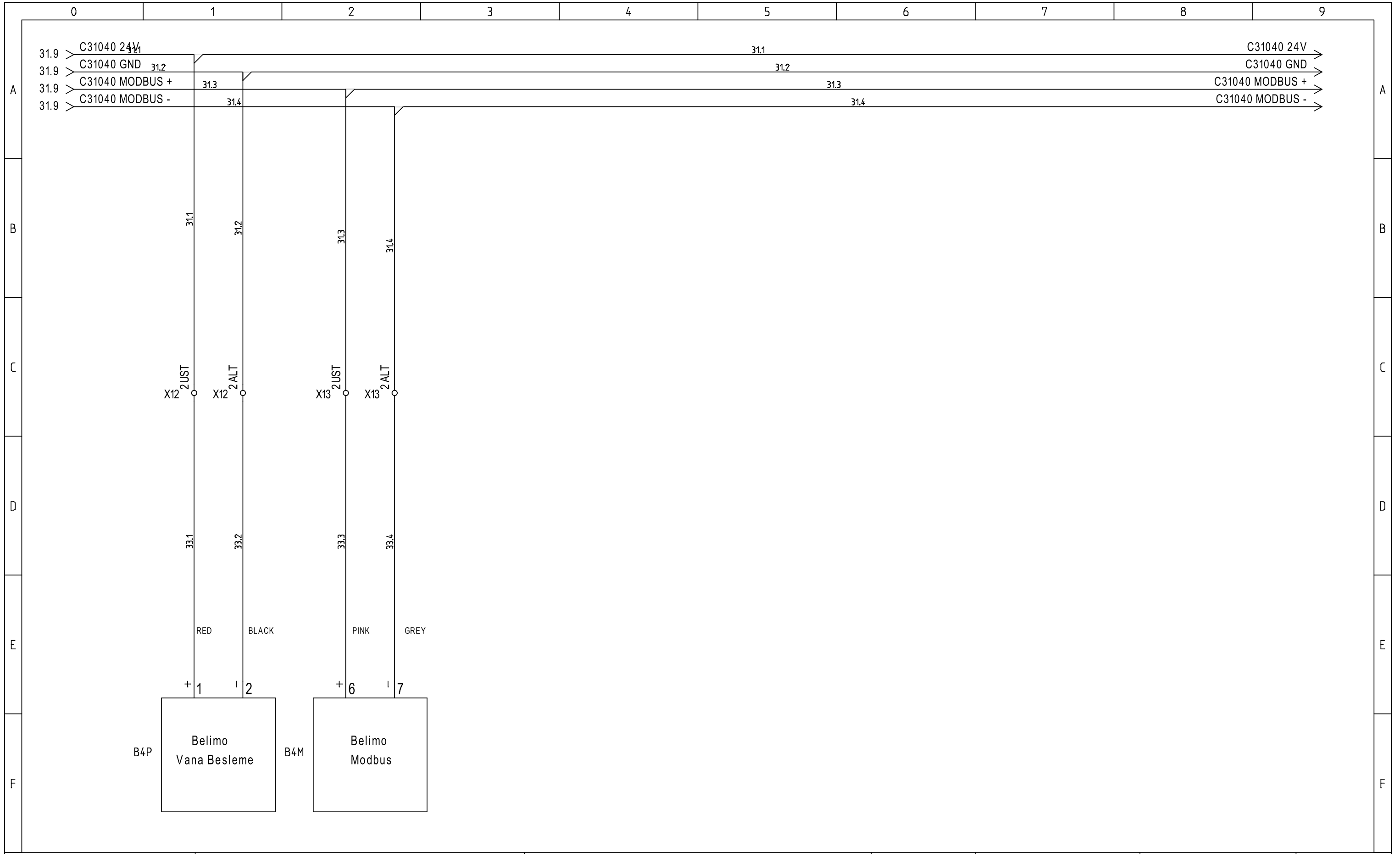
COMMUNICATION BOX AHU-4
C31040



C31040 AHU-4

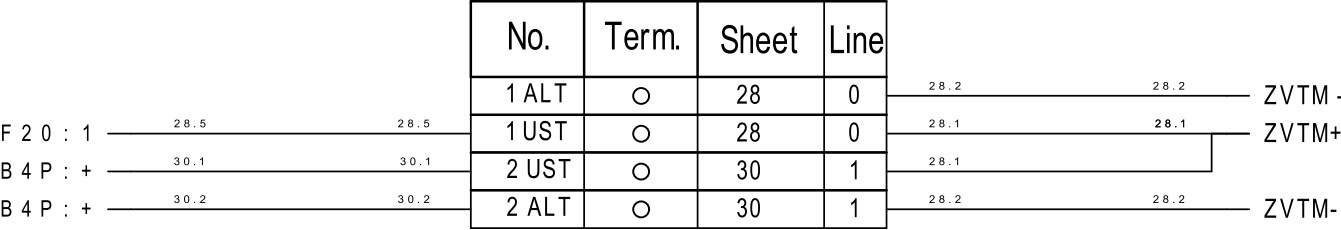
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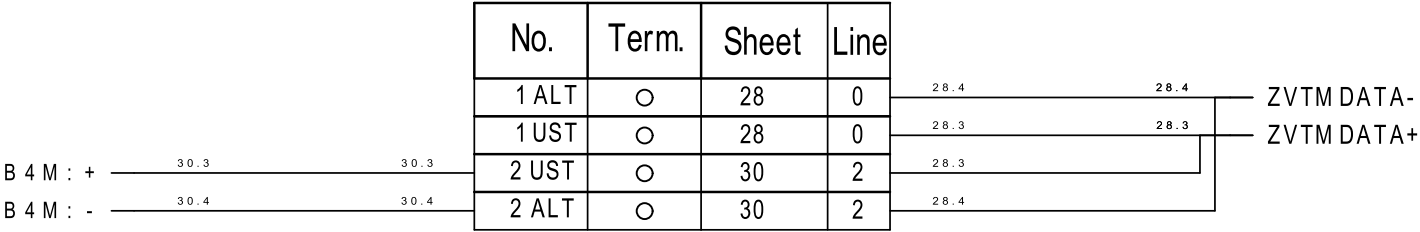


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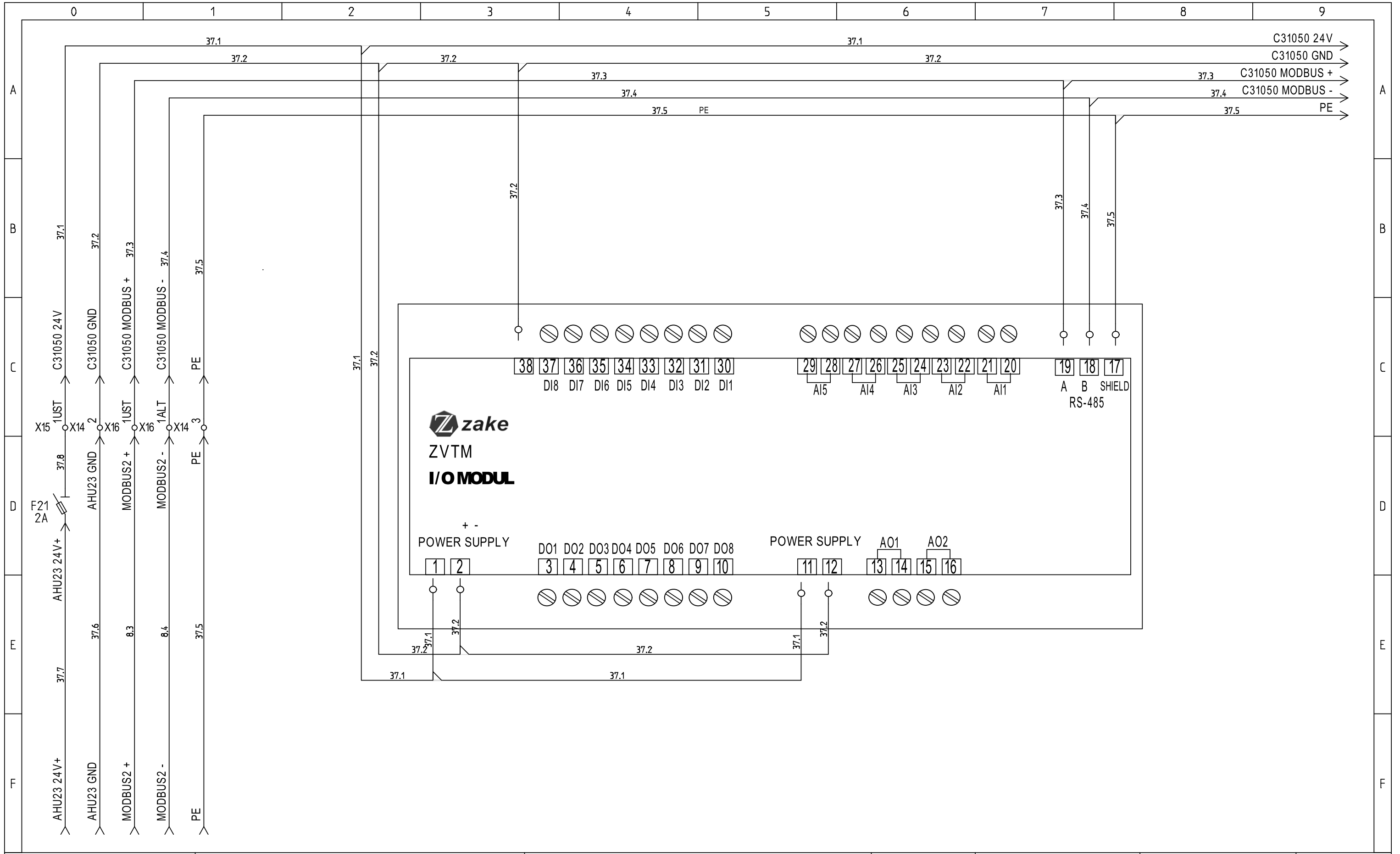


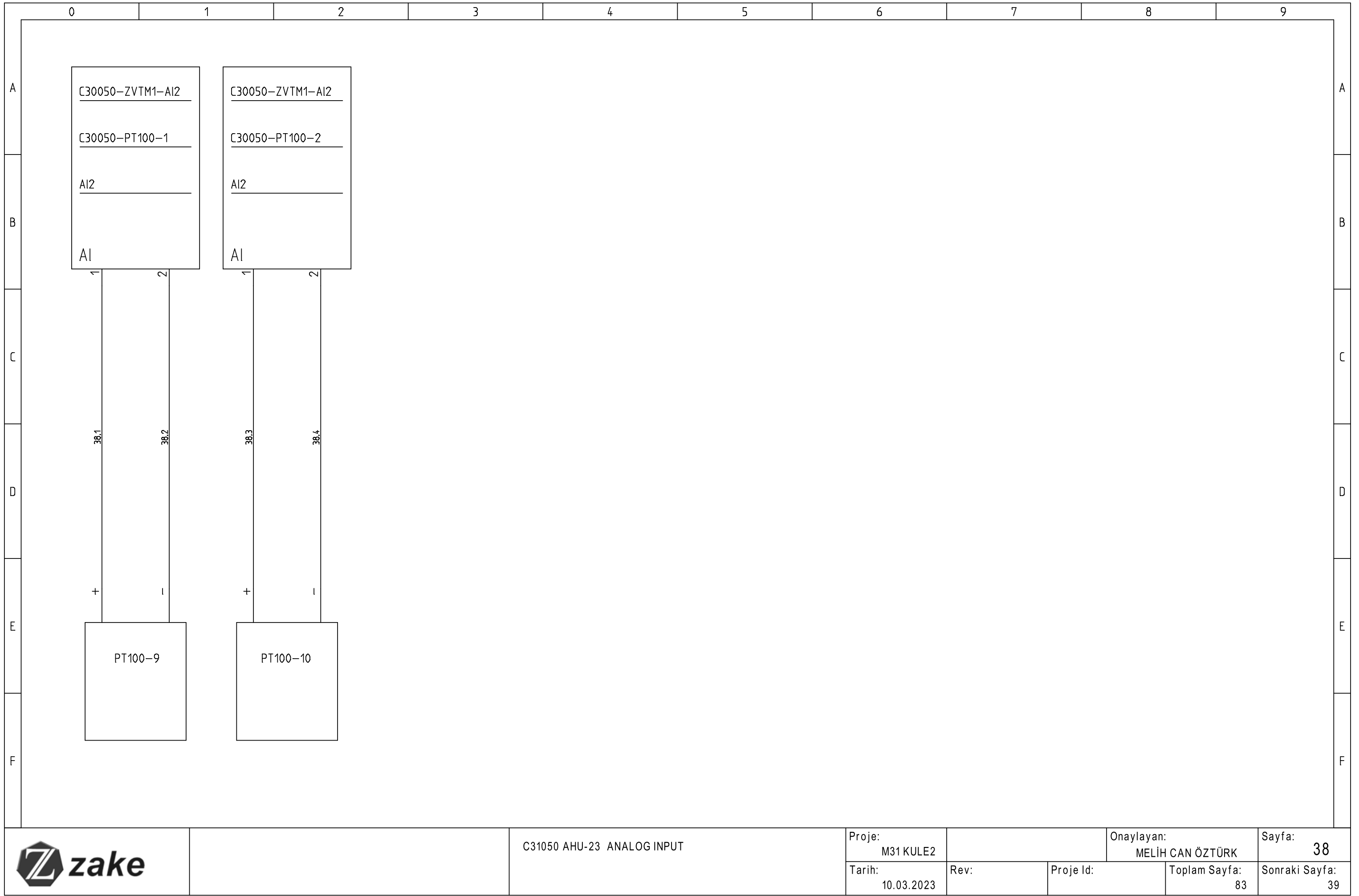
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Modification #2			Sheet Created by:			
Modification #3						

COMMUNICATION BOX AHU-23
C31050







C31050 AHU-23 ANALOG INPUT

Proje: M31 KULE2

Tarih: 10.03.2023

Onaylayan: MELİH CAN ÖZTÜRK

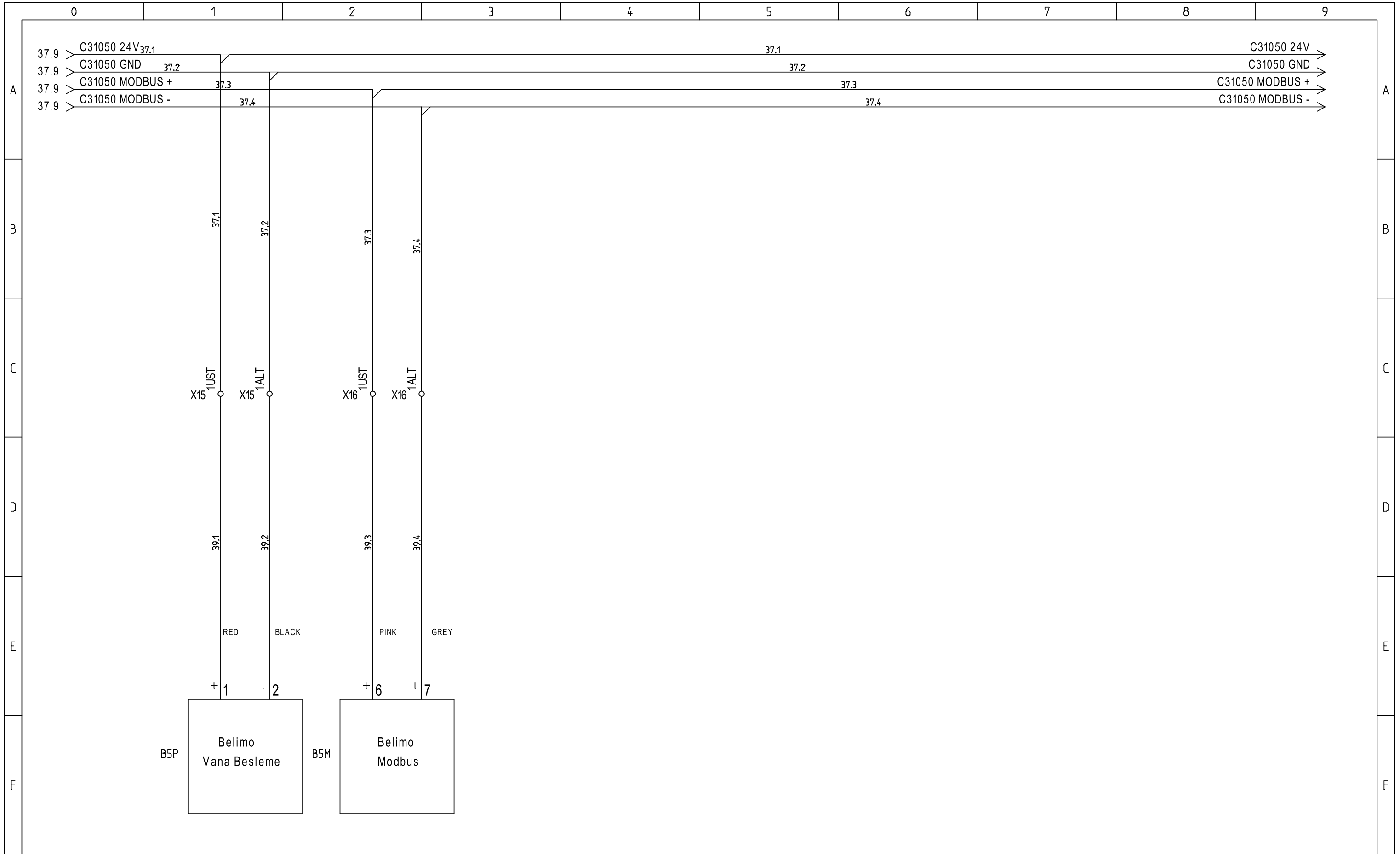
Rev:

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Sayfa: 38

Sonraki Sayfa: 39

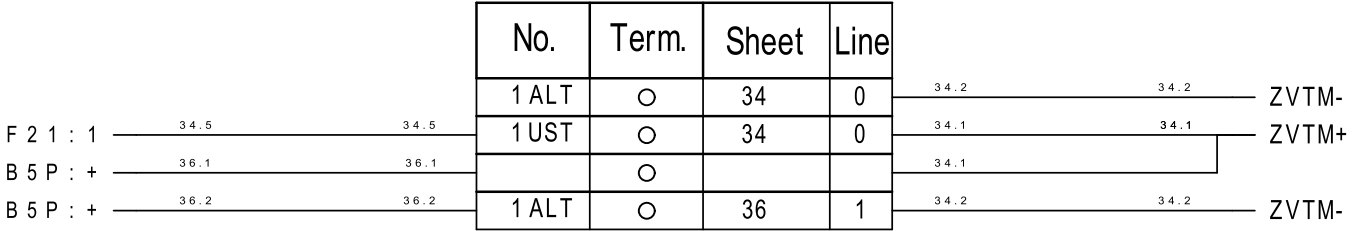


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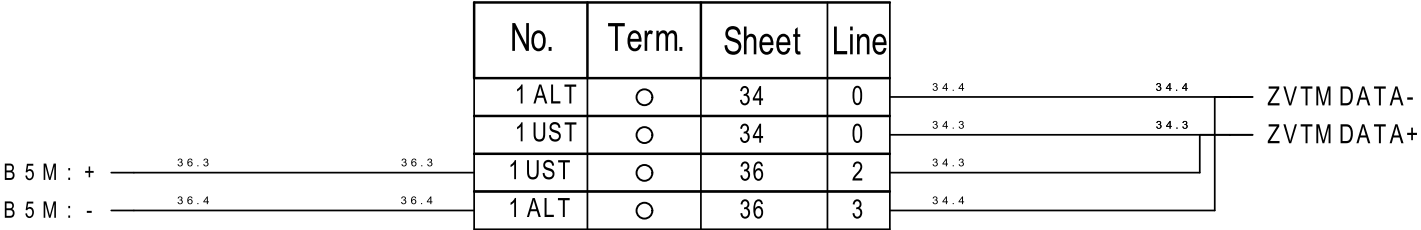
	Modifications Since Previous Revision	<div style="text-align: center;"> <h1>C30010</h1> <h2>C31050 A LIST OF MATERIIALS</h2> </div>	Document Number:	Sheet: 40 of 84	Rev. Date:	Rev.:
Modification #1					Cre. Date: 8.03.2023	
Modification #2					Sheet Created by:	
Modification #3						

Terminal Strip

X15

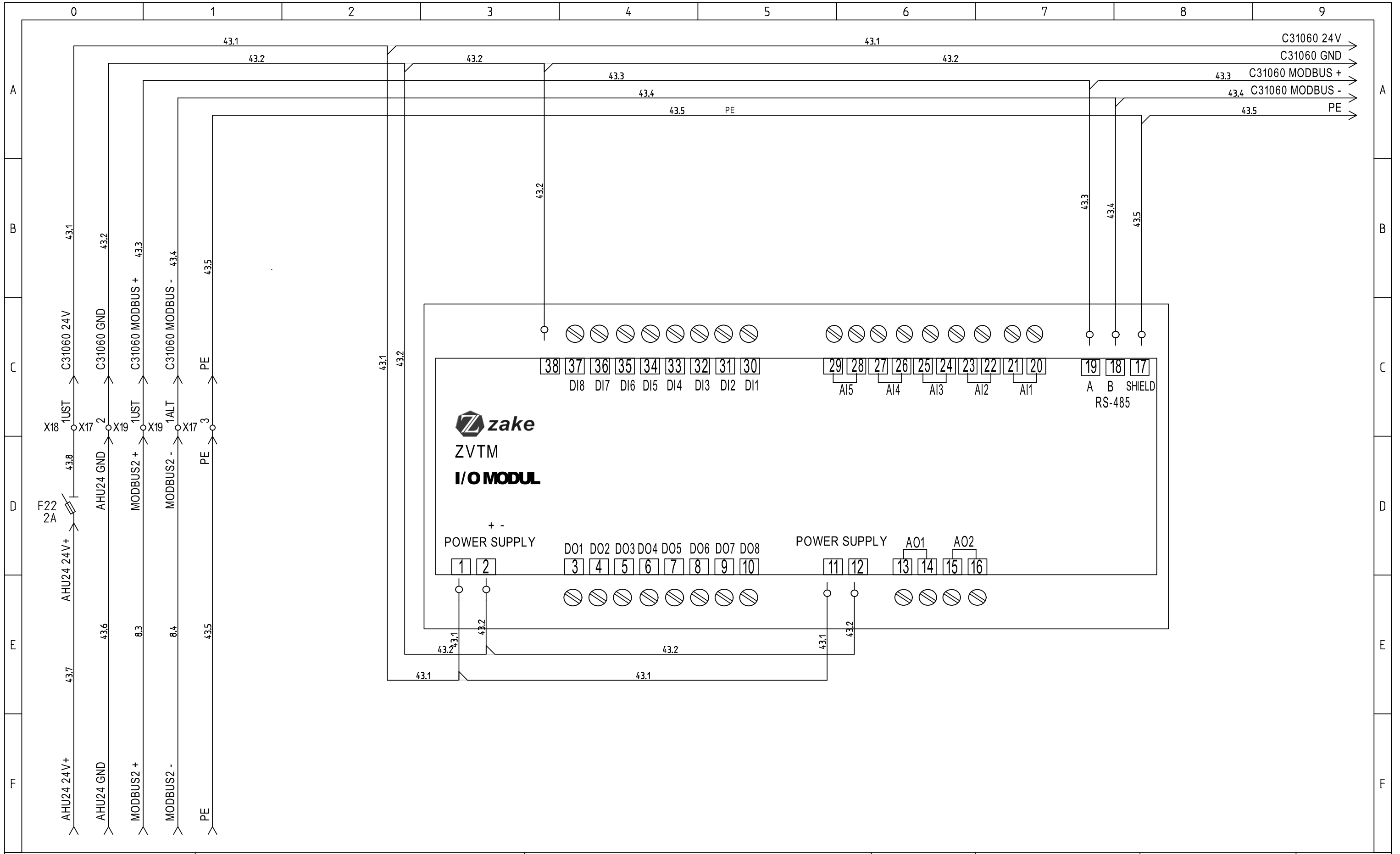


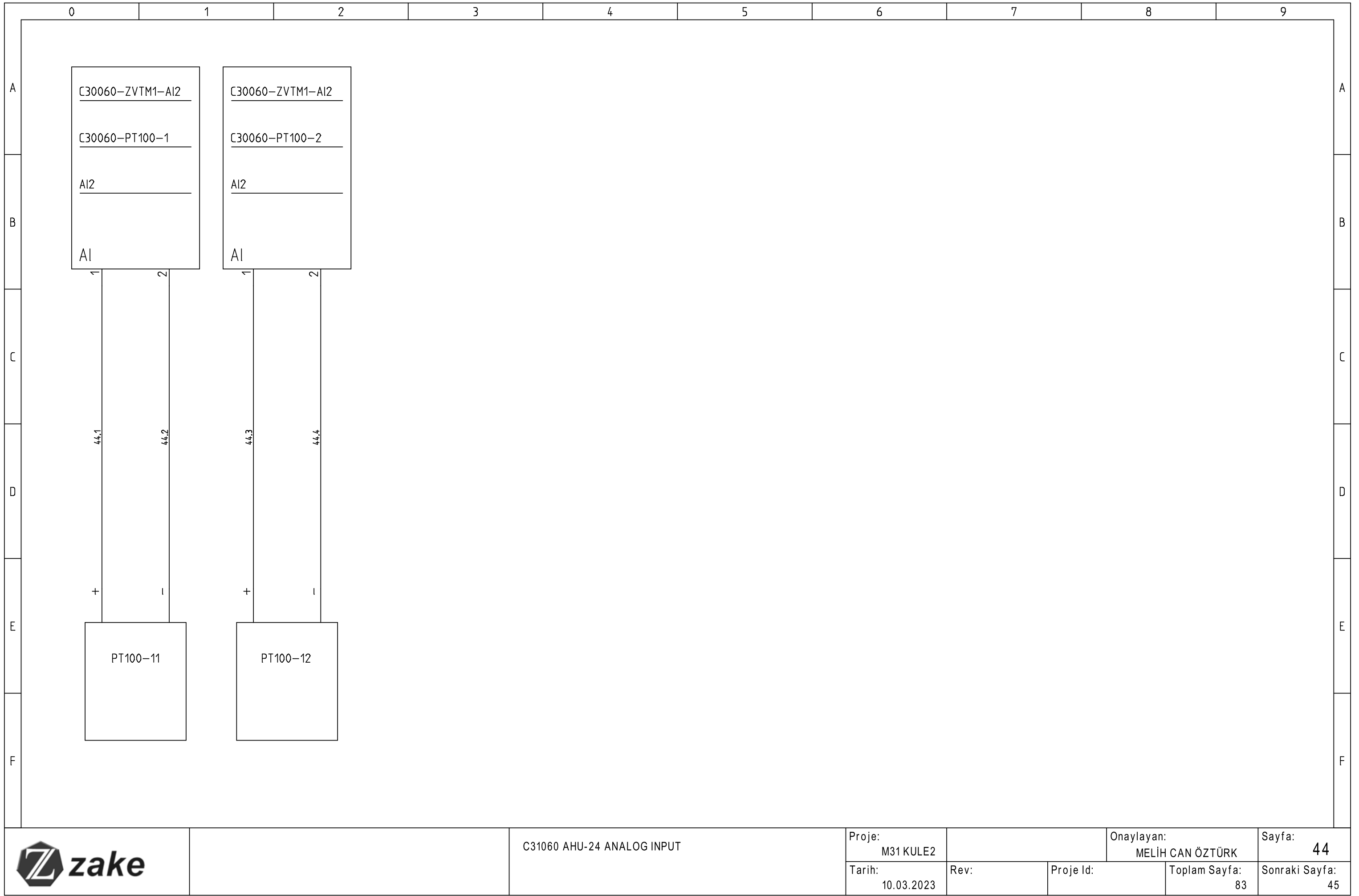
X16



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Modification #1					Cre. Date: 8.03.2023	
Modification #2			Sheet Created by:			
Modification #3						

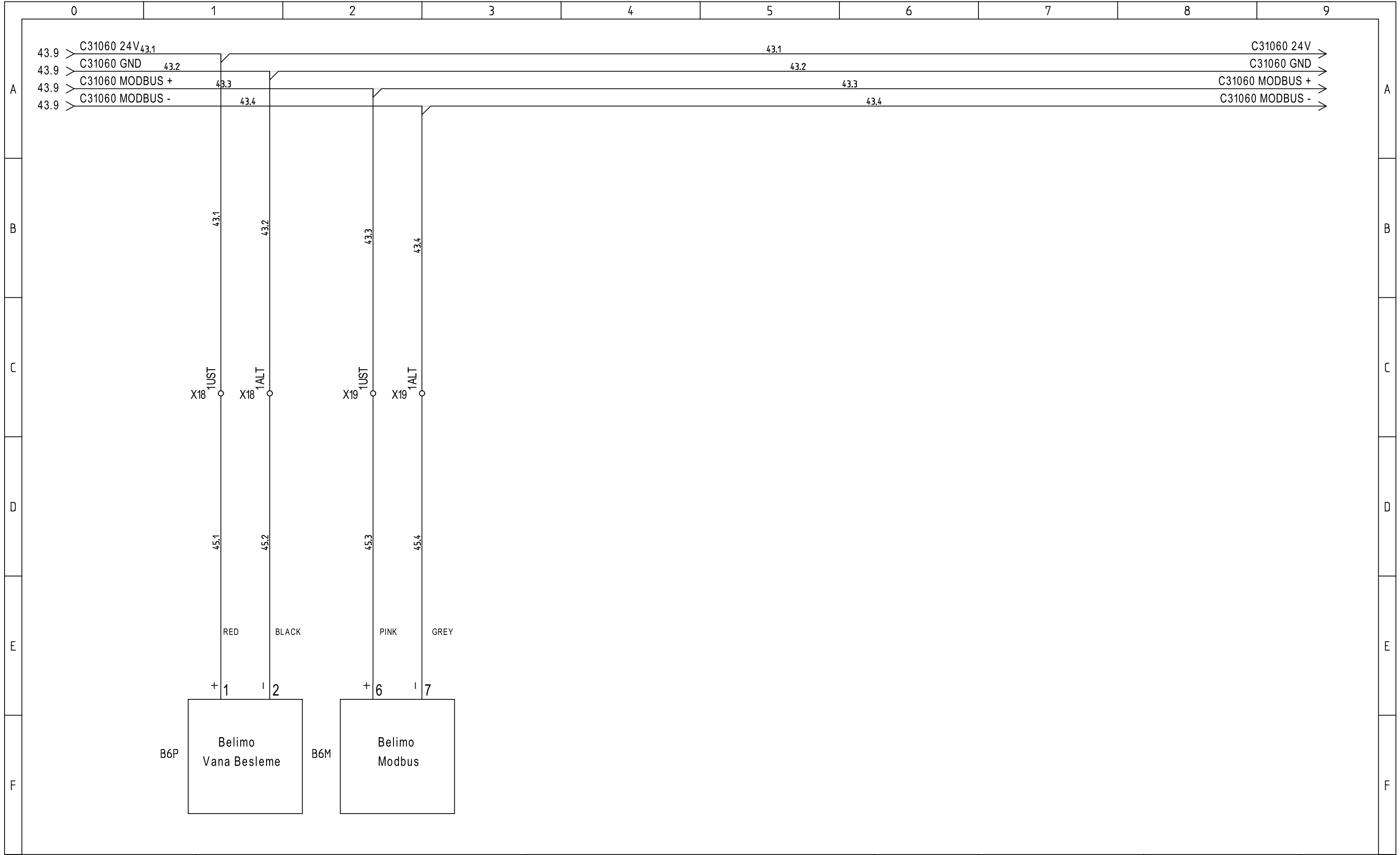
COMMUNICATION BOX AHU-24
C31060





C31060 AHU-24 ANALOG INPUT

Proje:	M31 KULE2	Onaylayan:	MELİH CAN ÖZTÜRK	Sayfa:	44
Tarih:	10.03.2023	Rev:	Proje Id:	Toplam Sayfa:	Sonraki Sayfa:
				83	45



C31060 AHU-24

Proje:
M31 KULE2

Proje Çizen:
SEMİH SOY

Onaylayan:
MELİH CAN ÖZTÜRK

Sayfa:
45

Tarih:
6.03.2023

Rev:

Proje Id:

Toplam Sayfa:
83

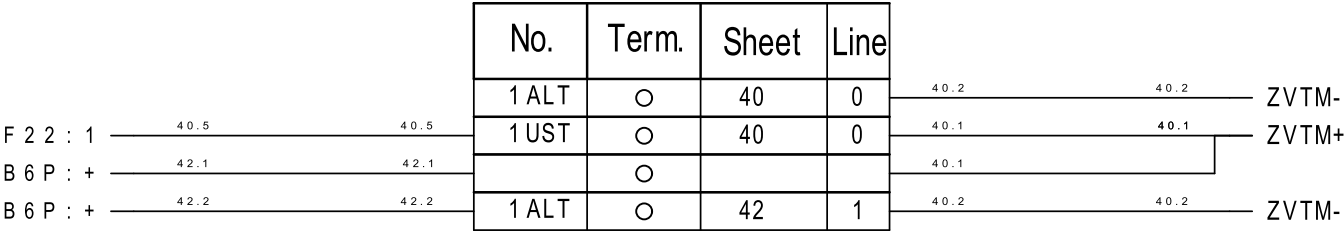
Sonraki Sayfa:
46

[illegible]

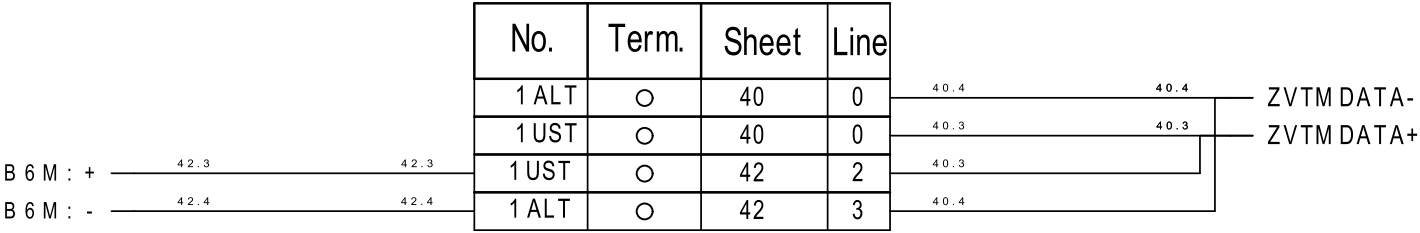
	Modifications Since Previous Revision	<div style="text-align: center;"> <h1>C30010</h1> <h2>C31060 A LIST OF MATERIIALS</h2> </div>	Document Number:	Sheet: 46 of 84	Rev. Date:	Rev.:
Modification #1					Cre. Date:	8.03.2023
Modification #2					Sheet Created by:	
Modification #3						

Terminal Strip

X18

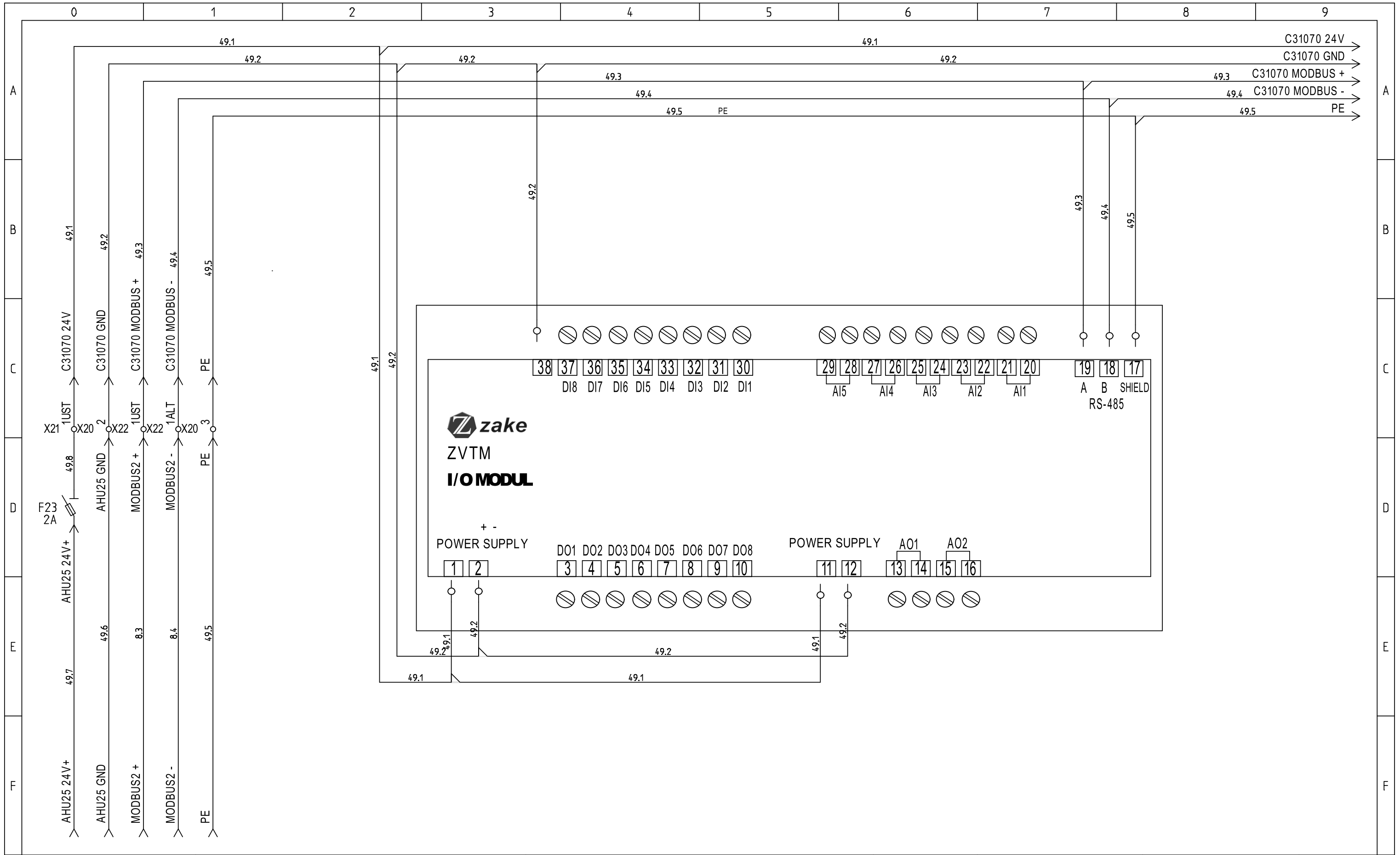


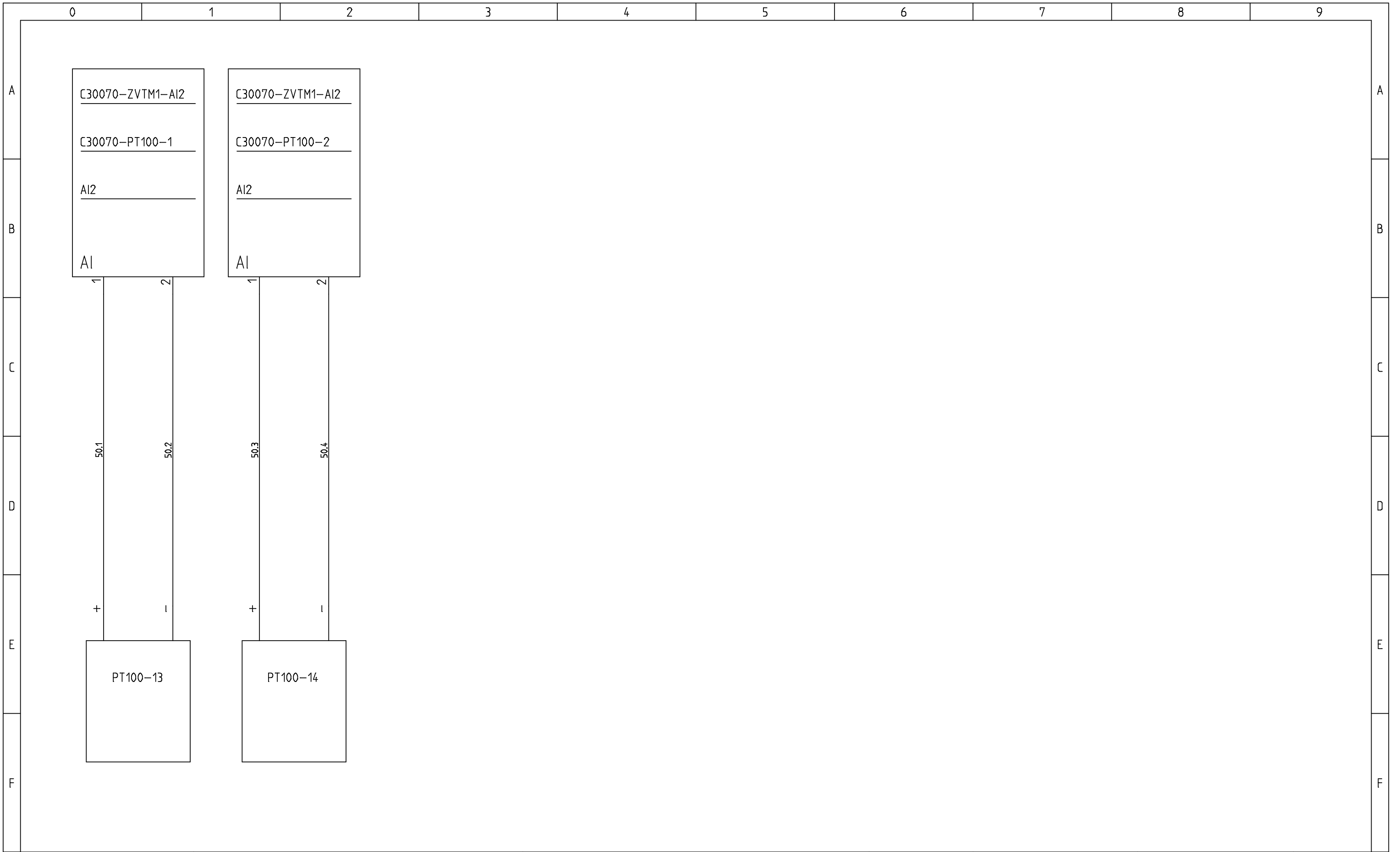
X19

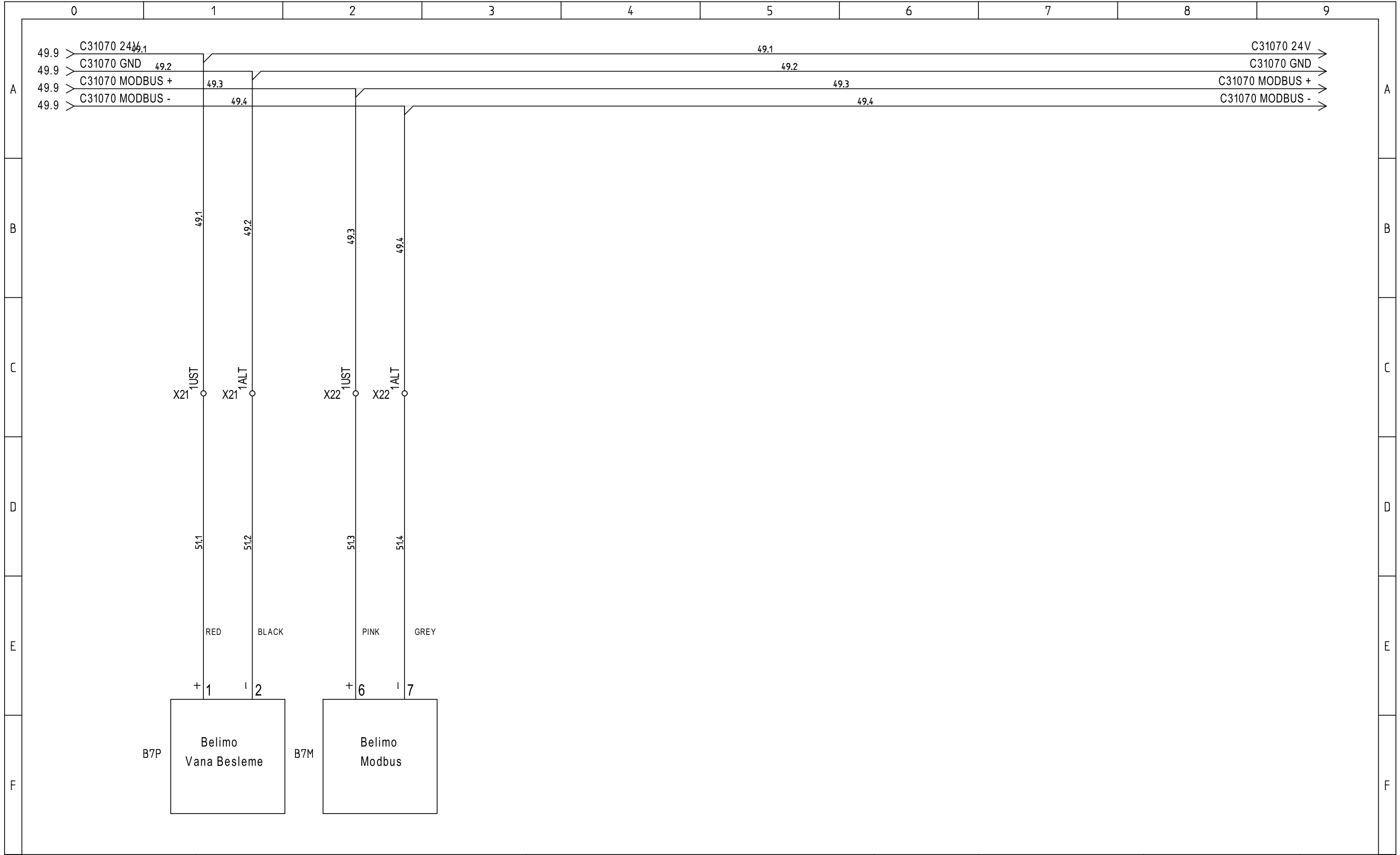


	Modifications Since Previous Revision	C30060 C31060 TERMINAL LISTS	Document Number:	Sheet: 47 of 84	Rev. Date:	Rev.:
Modification #1					Cre. Date: 8.03.2023	
Modification #2			Sheet Created by:			
Modification #3						

COMMUNICATION BOX AHU-25
C31070

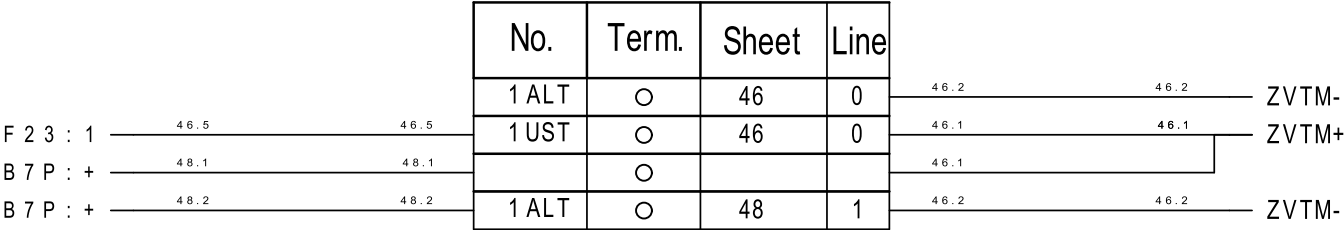




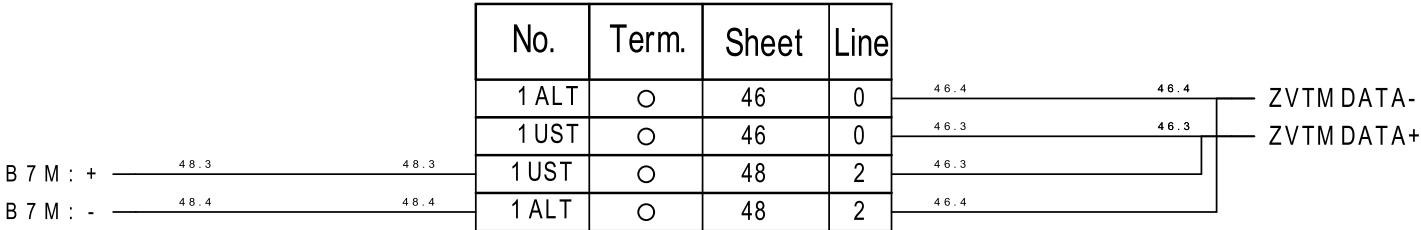


Terminal Strip

X21

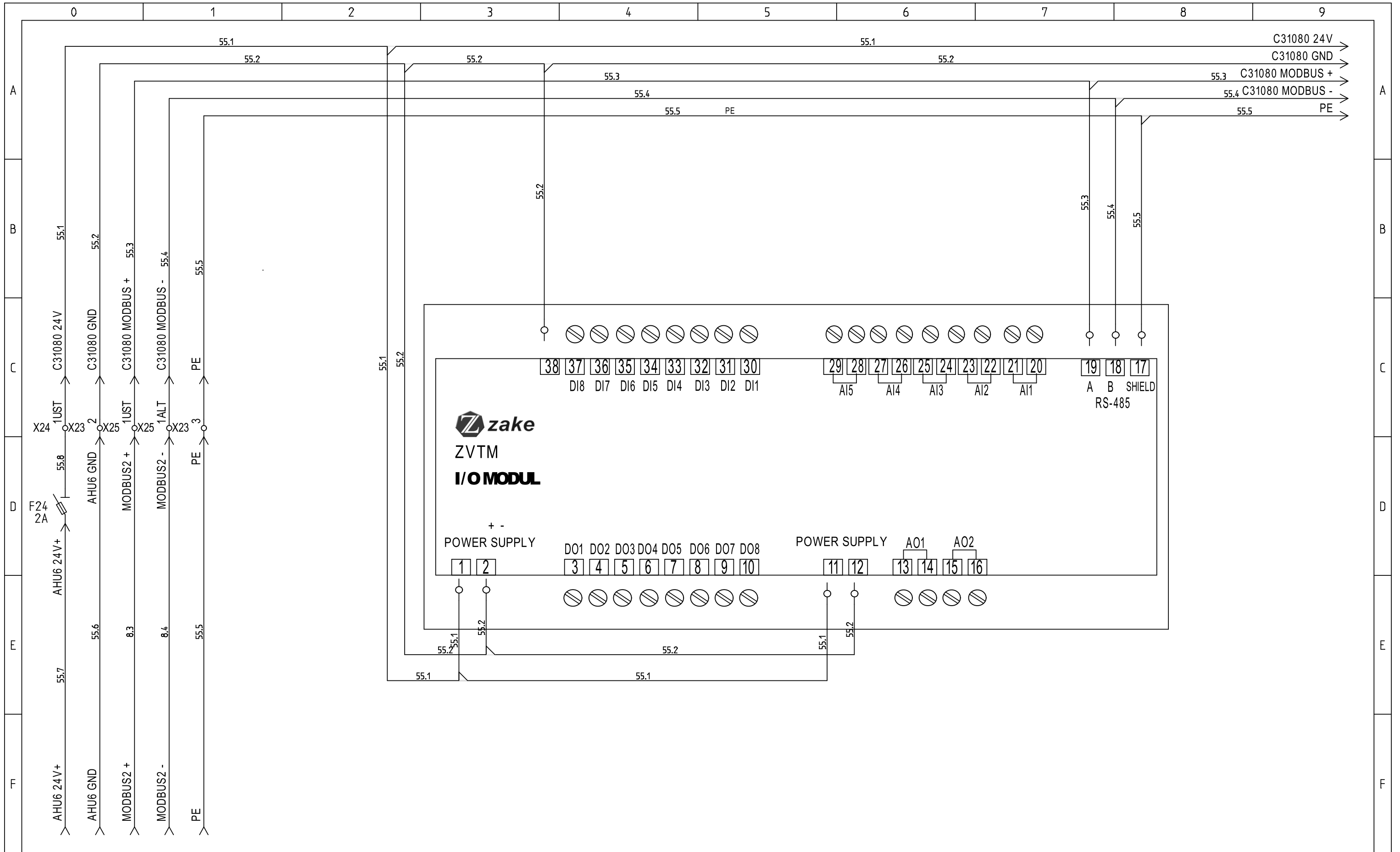


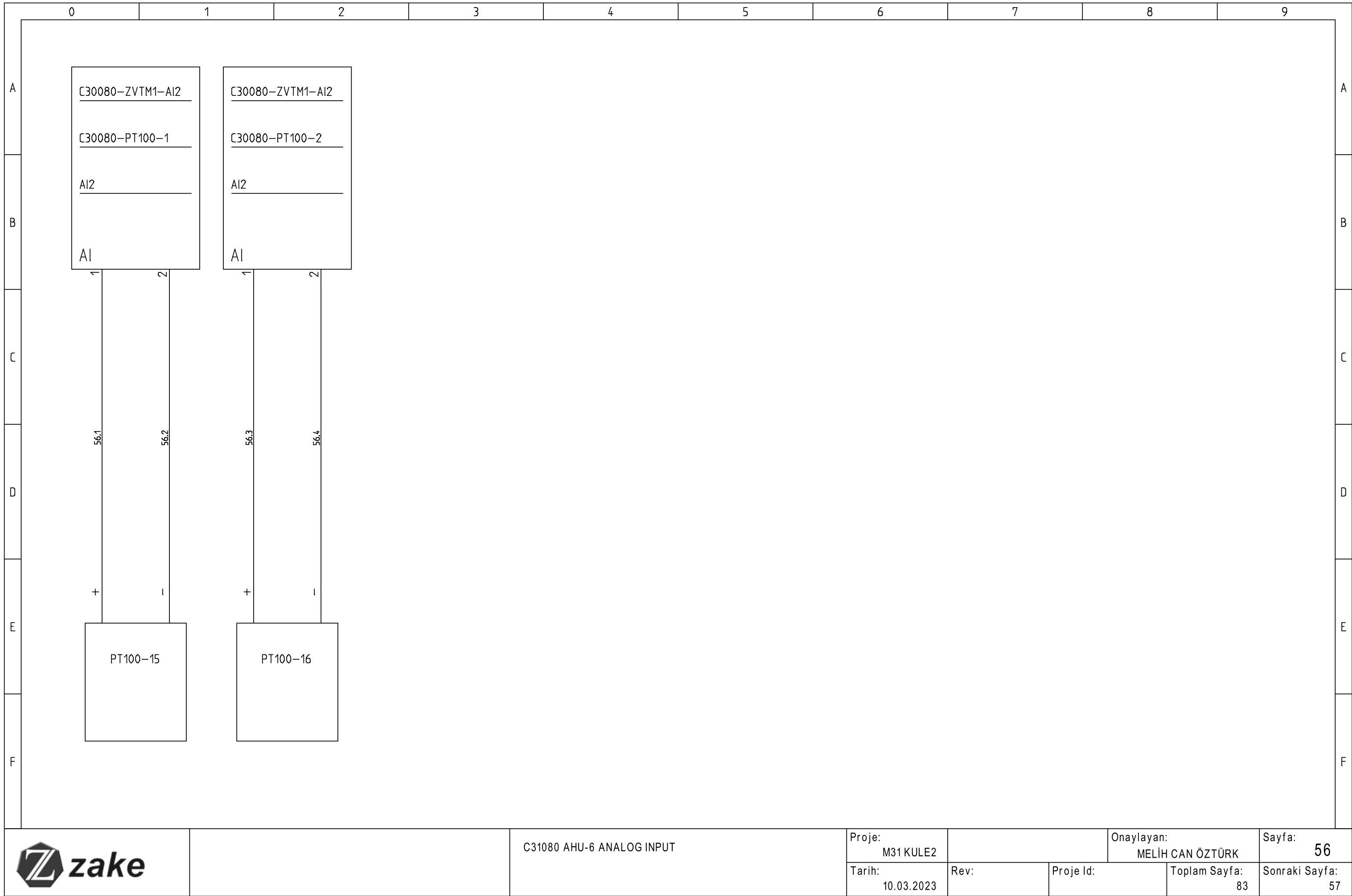
X22



	Modifications Since Previous Revision	C30070 C31070 TERMINAL LISTS	Document Number:	Sheet: 53 of 84	Rev. Date:	Rev.:
Modification #1					Cre. Date: 8.03.2023	
Modification #2			Sheet Created by:			
Modification #3						

COMMUNICATION BOX AHU-6
C31080





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C31080 AHU-6 ANALOG INPUT

Proje: M31 KULE2

Tarih: 10.03.2023

Onaylayan: MELİH CAN ÖZTÜRK

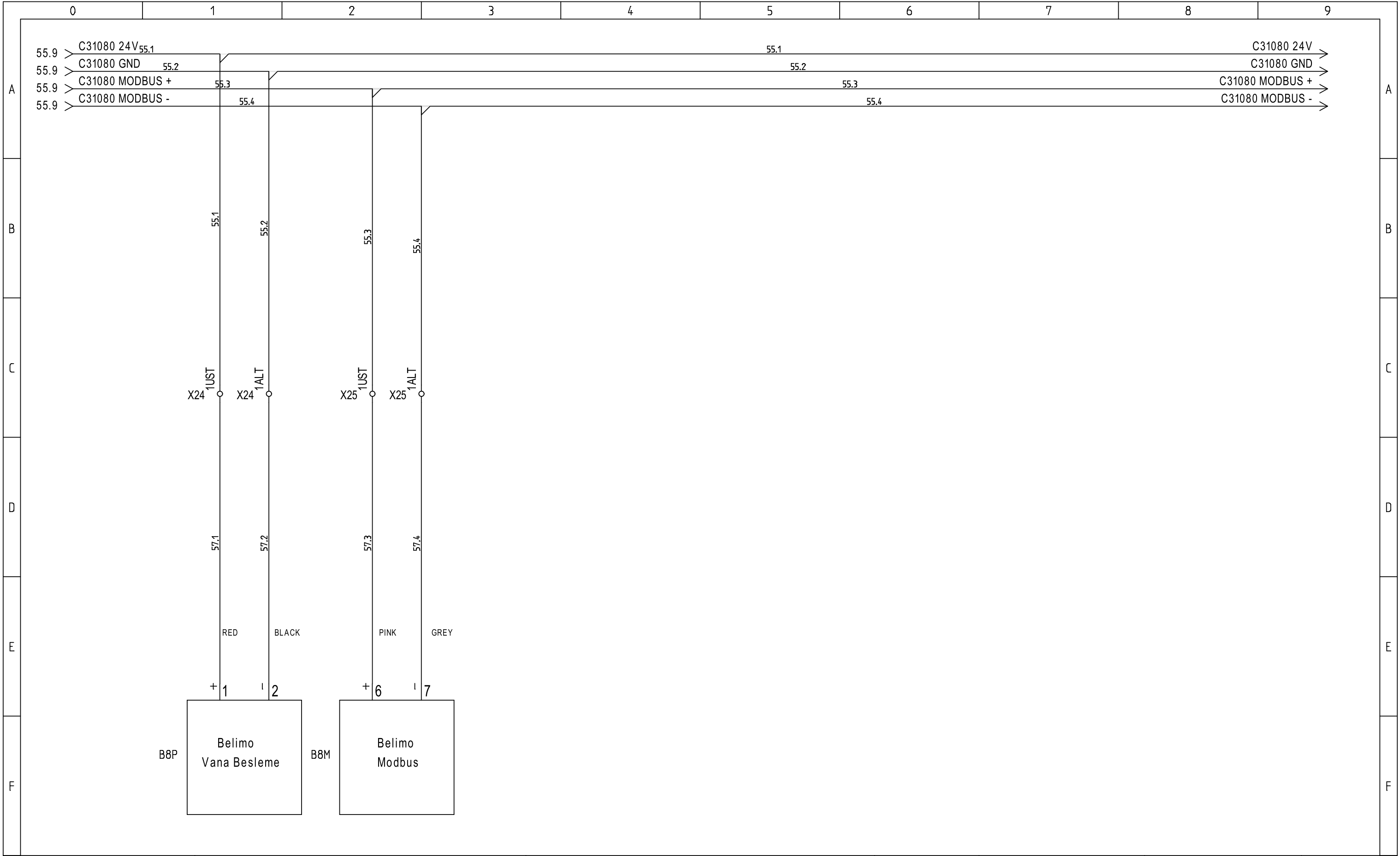
Rev:

Proje Id:

Toplam Sayfa: 83

Sayfa: 56

Sonraki Sayfa: 57



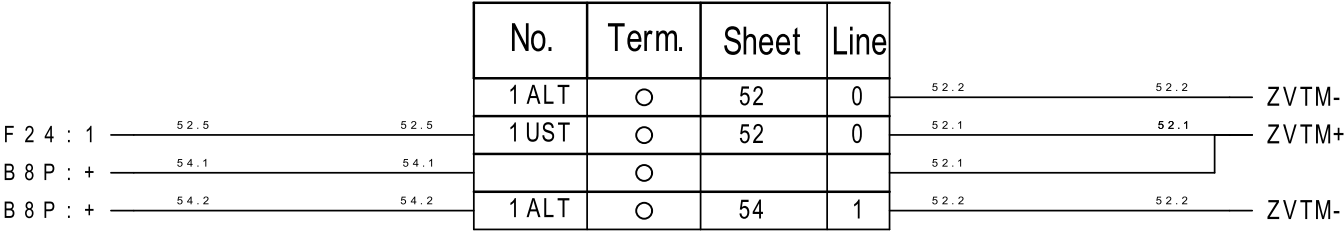
C31080 AHU-6

Proje: M31 KULE2	Proje Çizen: SEMİH SOY	Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 57
Tarih: 6.03.2023	Rev:	Proje Id:	Toplam Sayfa: 83

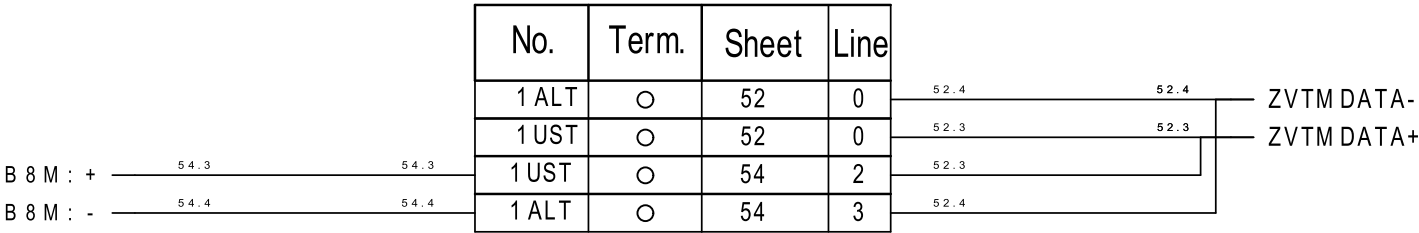
Sonraki Sayfa:
58

Terminal Strip

X24

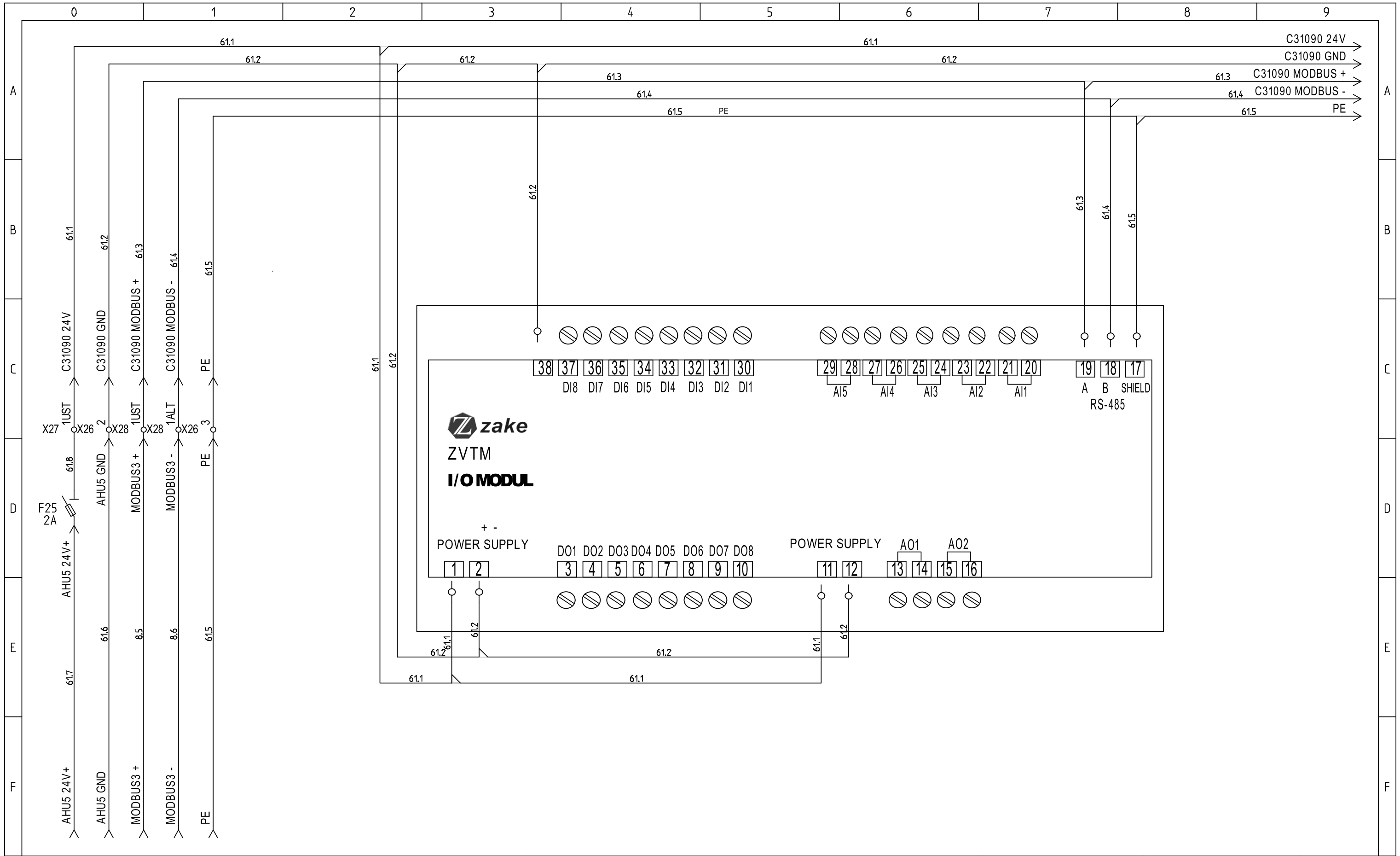


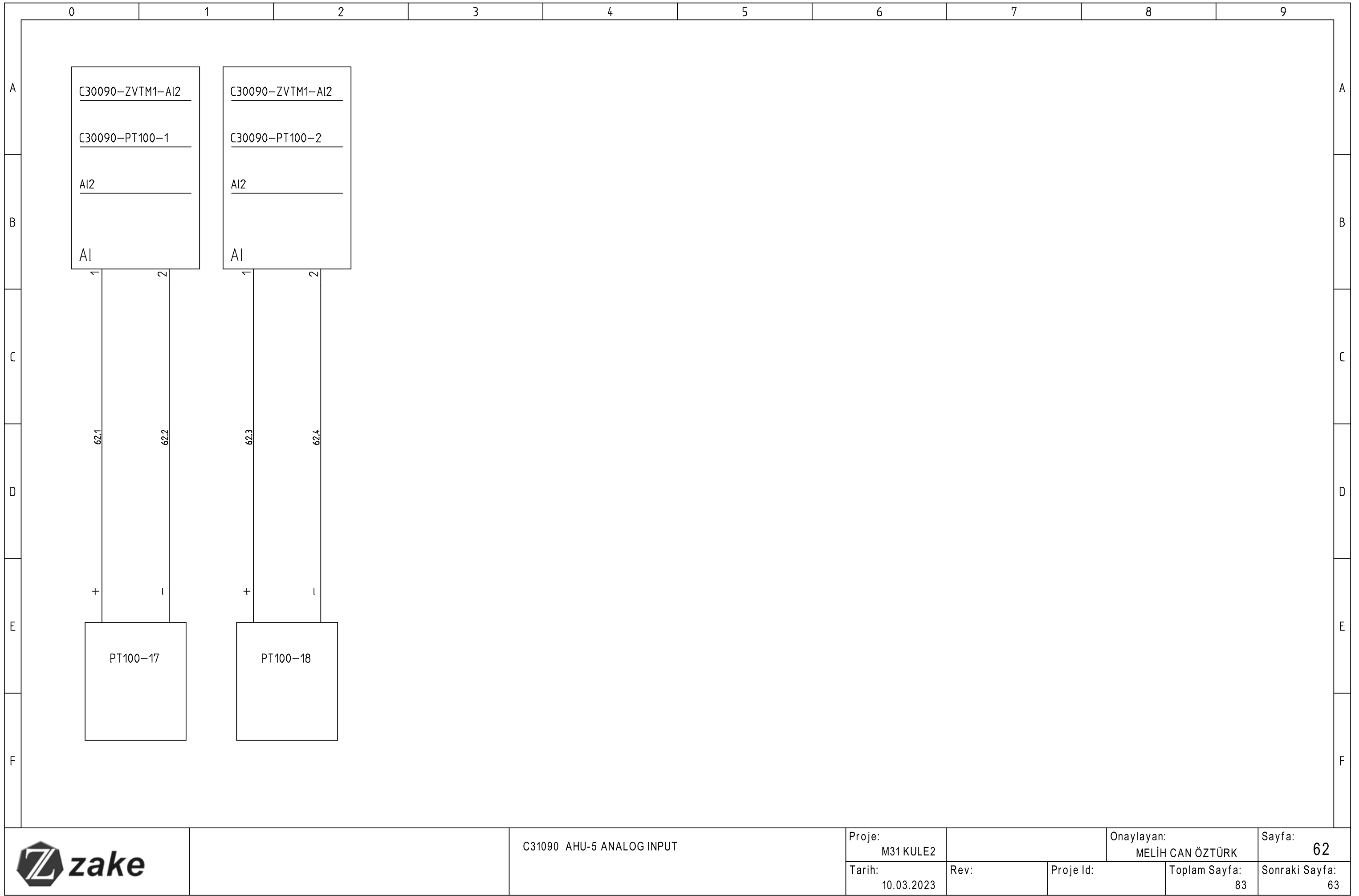
X25



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Modification #3						

COMMUNICATION BOX AHU-5
C31090





C31090 AHU-5 ANALOG INPUT

Proje:
M31 KULE2

Tarih:
10.03.2023

Onaylayan:
MELİH CAN ÖZTÜRK

Rev:

Proje Id:

Toplam Sayfa:
83

Sayfa:
62

Sonraki Sayfa:
63

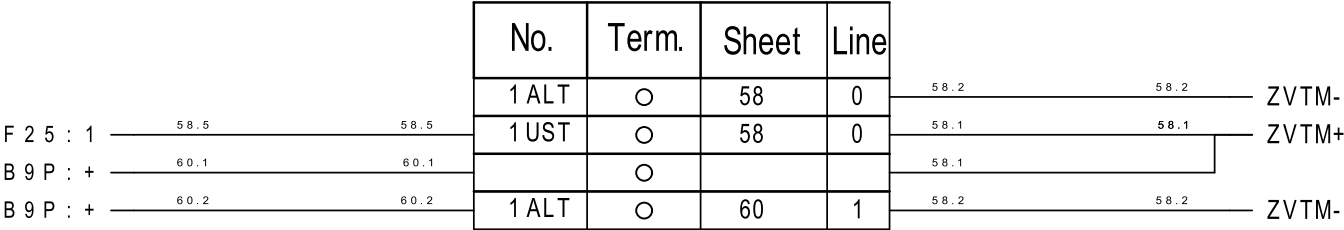


[illegible]

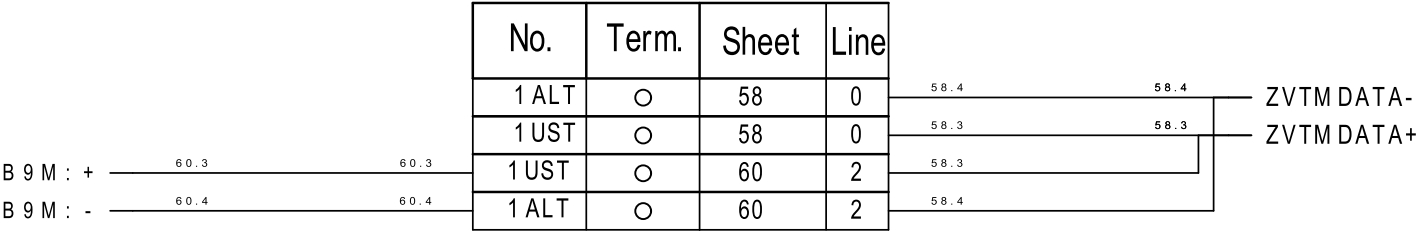
	Modifications Since Previous Revision	<div style="text-align: center;"> <h1>C30010</h1> <h2>C31090 A LIST OF MATERIIALS</h2> </div>	Document Number:	Sheet: 64 of 84	Rev. Date:	Rev.:
Modification #1					Cre. Date: 8.03.2023	
Modification #2					Sheet Created by:	
Modification #3						

Terminal Strip

X27

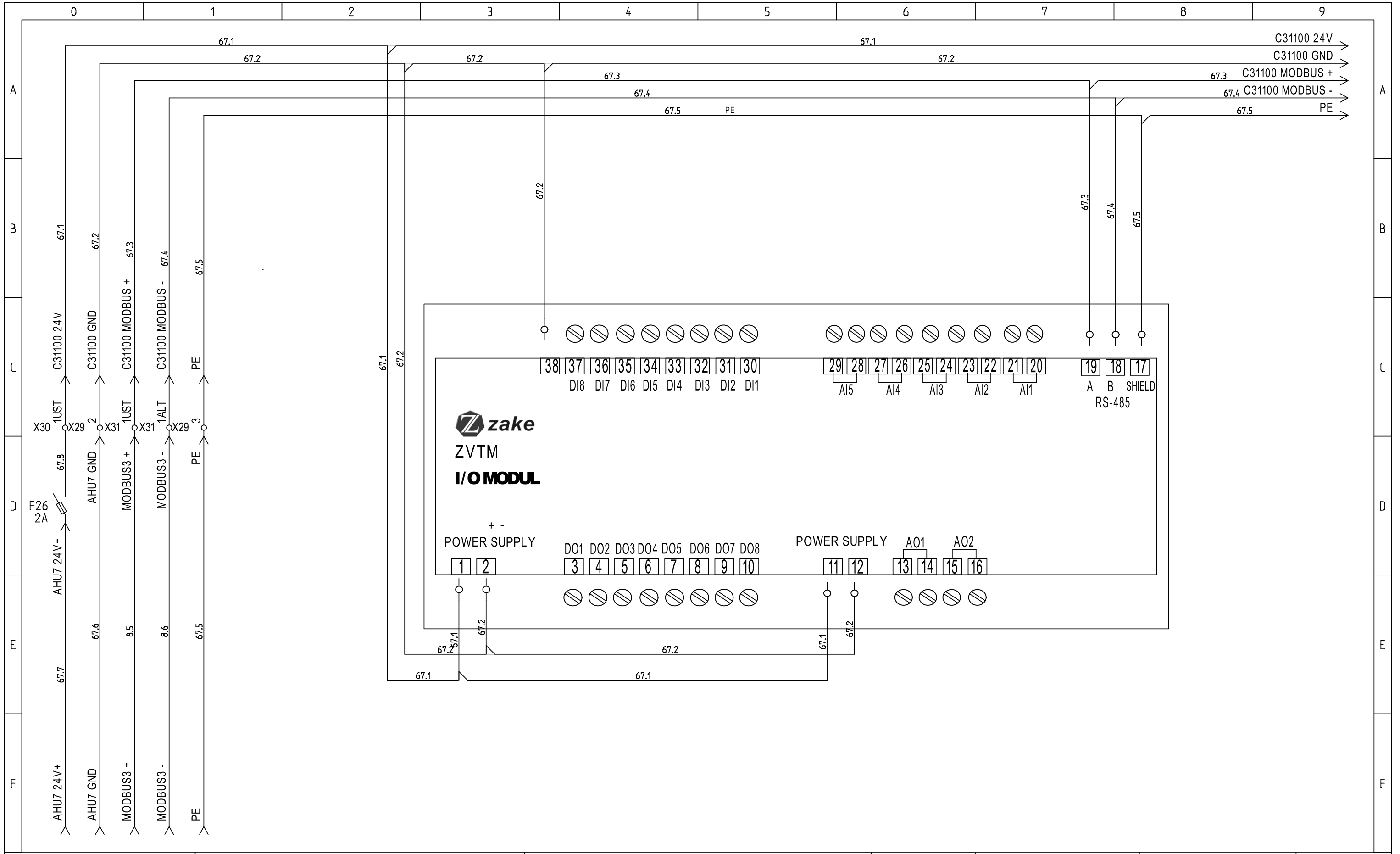


X28



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Modification #2			Sheet Created by:			
Modification #3						

COMMUNICATION BOX AHU-7
C31100



C31100 AHU-7

Proje:
M31 KULE2

Proje Çizen:
SEMİH SOY

Onaylayan:
MELİH CAN ÖZTÜRK

Sayfa:
67

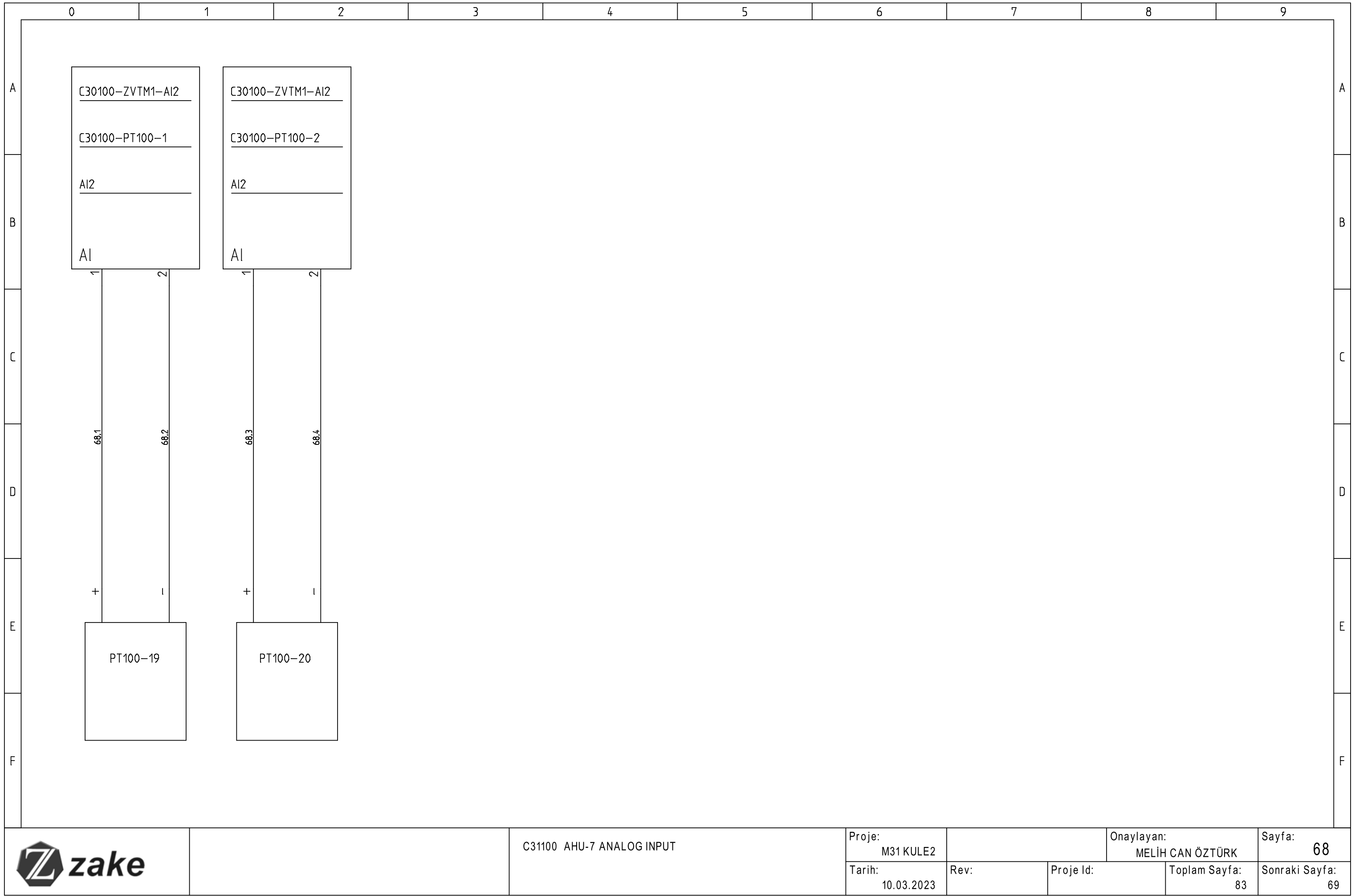
Tarih:
8.03.2023

Rev:

Proje Id:

Toplam Sayfa:
83

Sonraki Sayfa:
68



C31100 AHU-7 ANALOG INPUT

Proje:
M31 KULE2

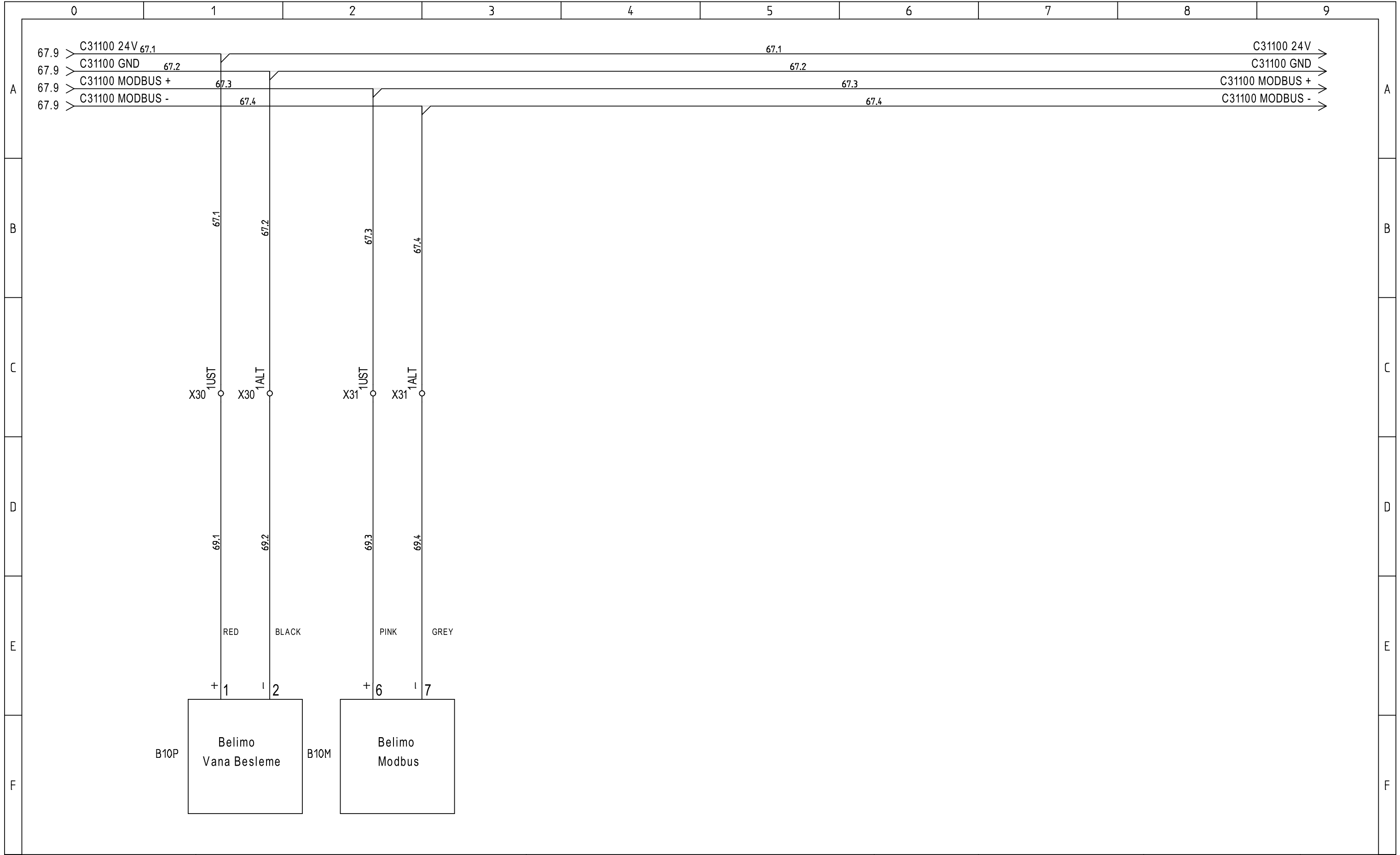
Tarih:
10.03.2023

Onaylayan:
MELİH CAN ÖZTÜRK

Rev:
Proje Id:
Toplam Sayfa:
83

Sayfa:
68

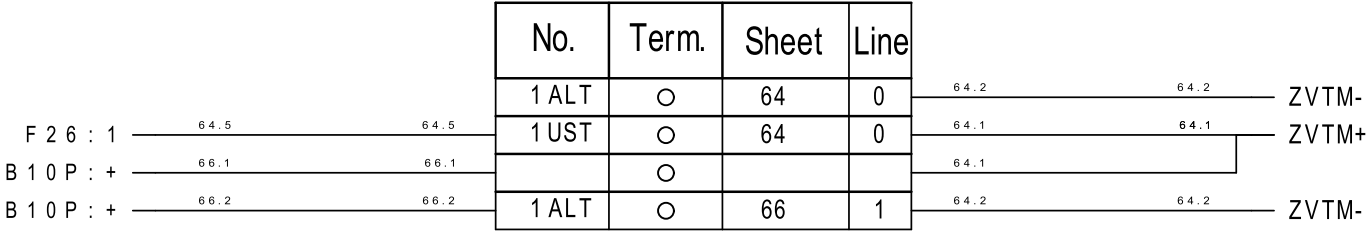
Sonraki Sayfa:
69



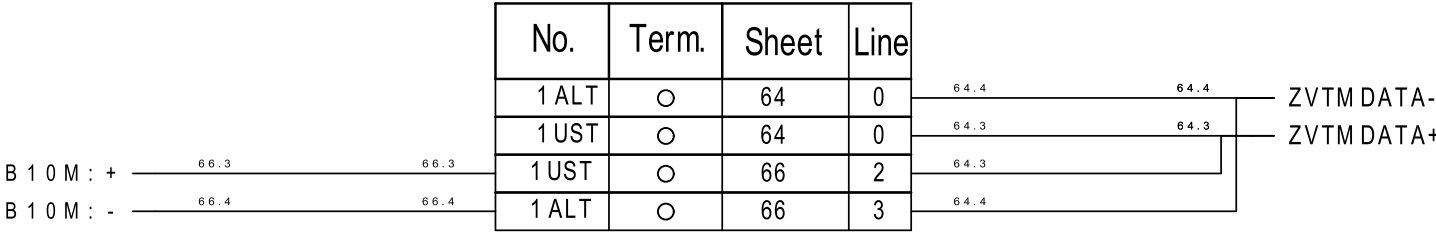
[illegible]

Terminal Strip

X30

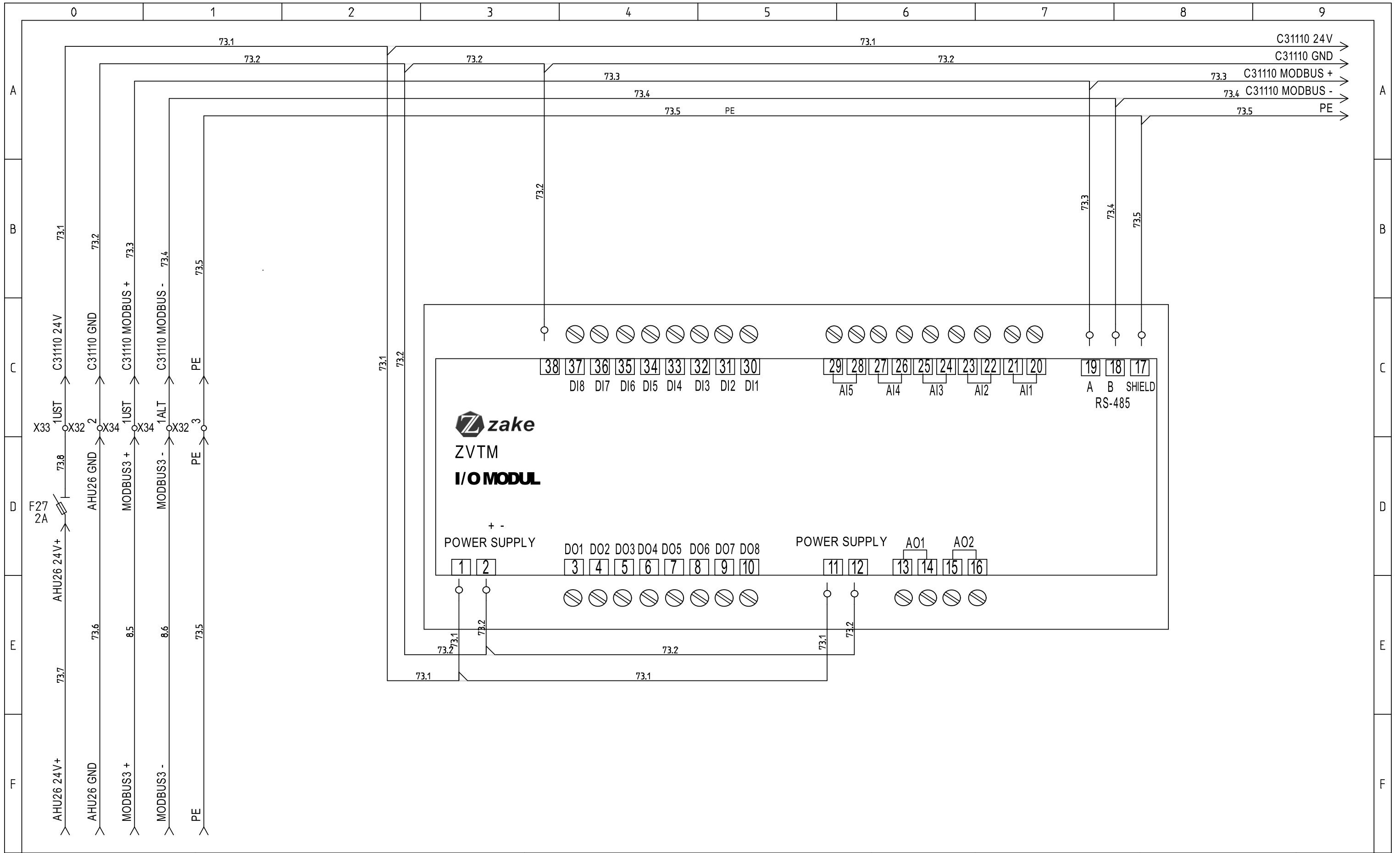


X31



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Modification #3						

COMMUNICATION BOX AHU-26
C31110



C31110 AHU-26

Proje:
M31 KULE2

Proje Çizen:
SEMİH SOY

Onaylayan:
MELİH CAN ÖZTÜRK

Sayfa:
73

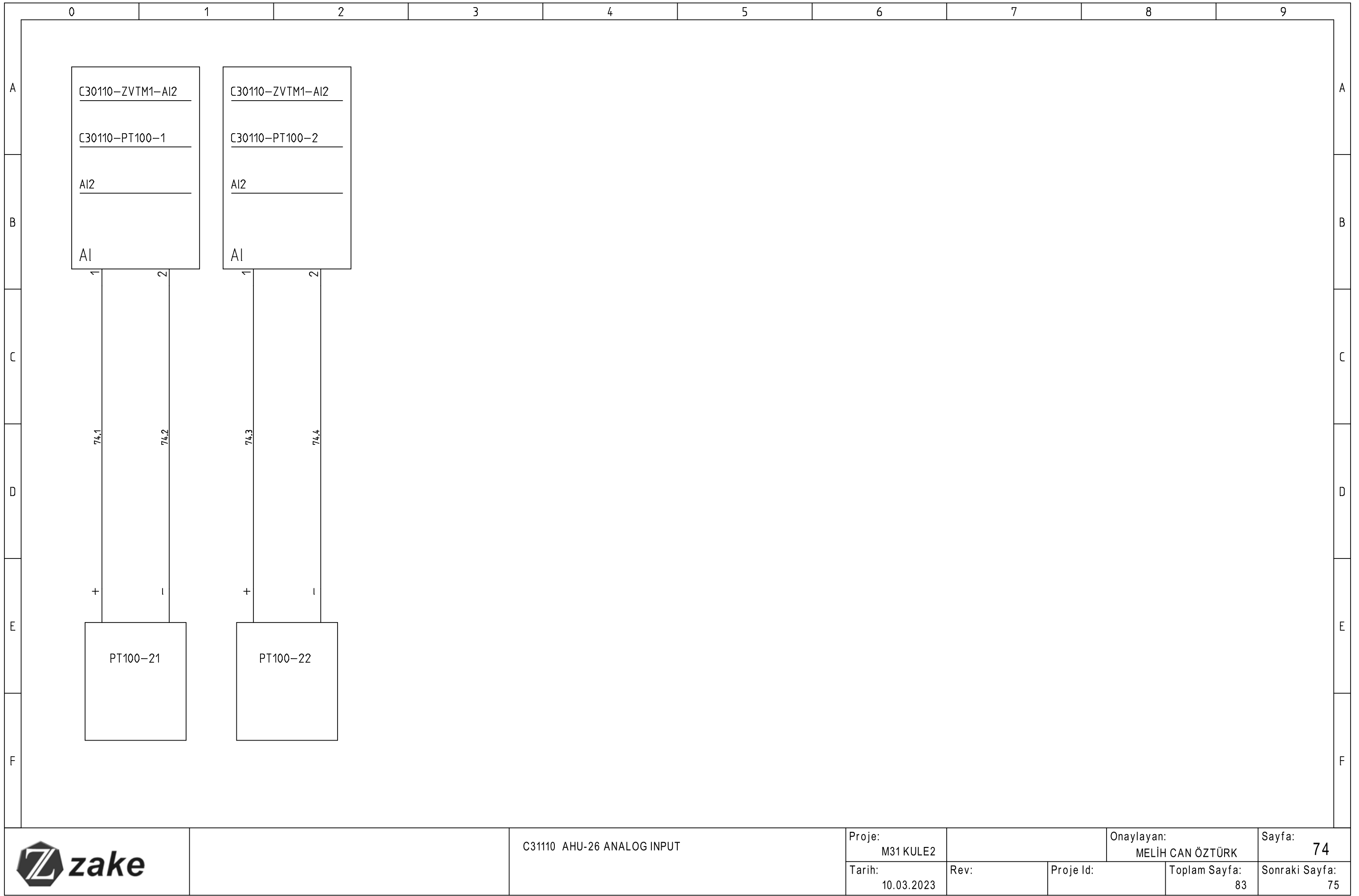
Tarih:
8.03.2023

Rev:

Proje Id:

Toplam Sayfa:
83

Sonraki Sayfa:
74



C31110 AHU-26 ANALOG INPUT

Proje:
M31 KULE2

Tarih:
10.03.2023

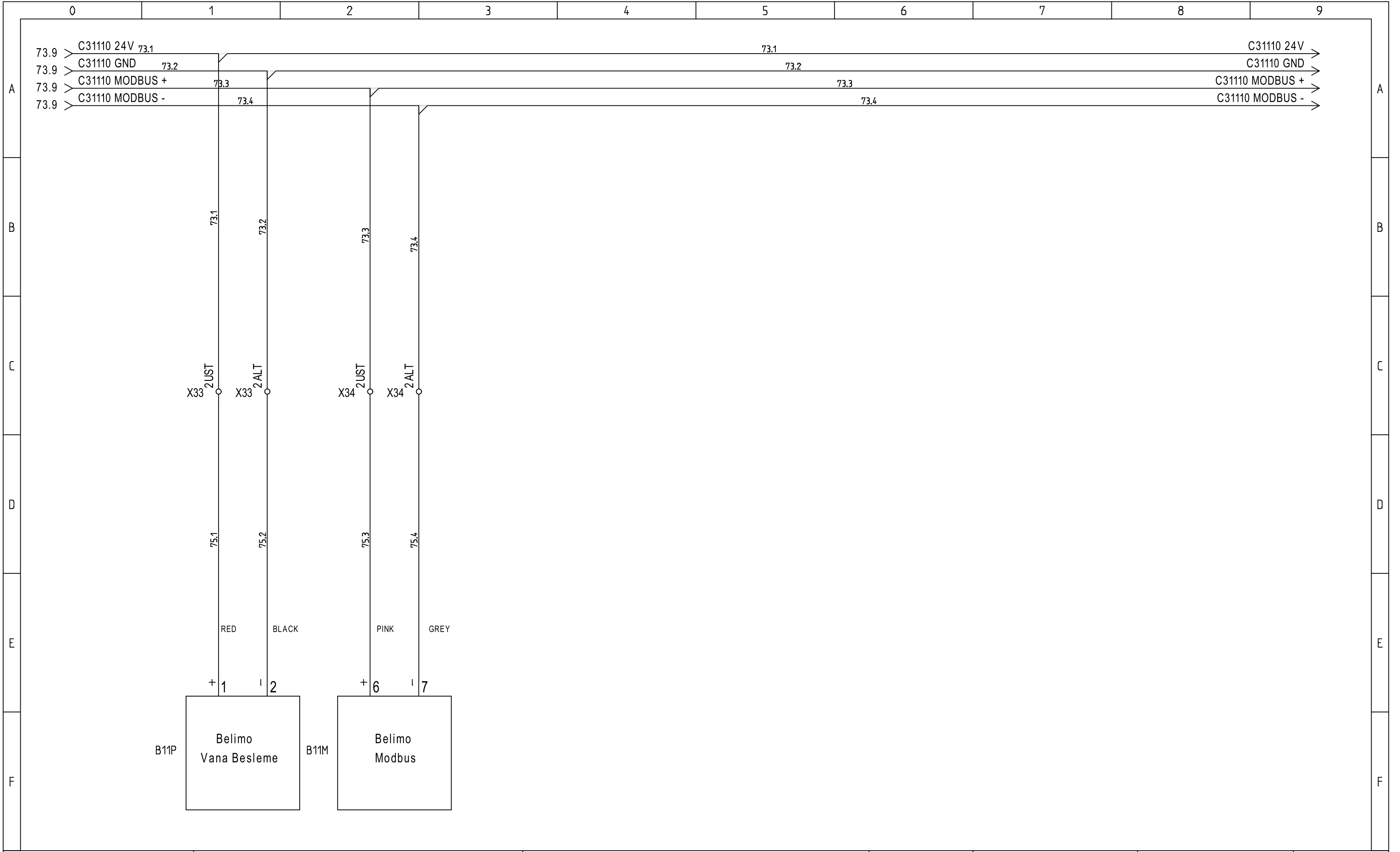
Onaylayan:
MELİH CAN ÖZTÜRK

Proje Id:

Toplam Sayfa:
83

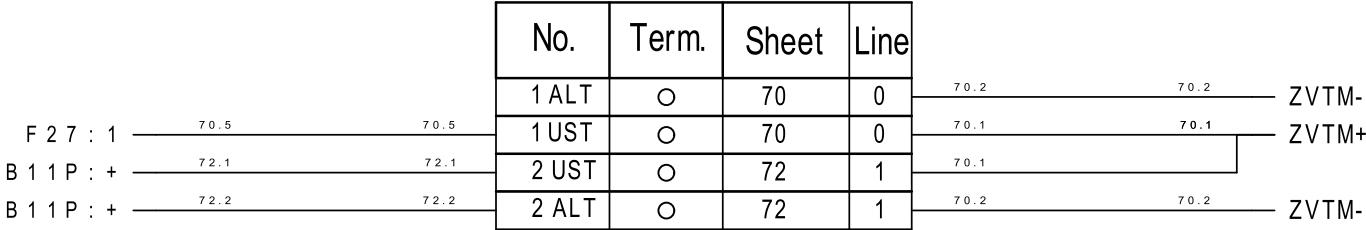
Sayfa:
74

Sonraki Sayfa:
75

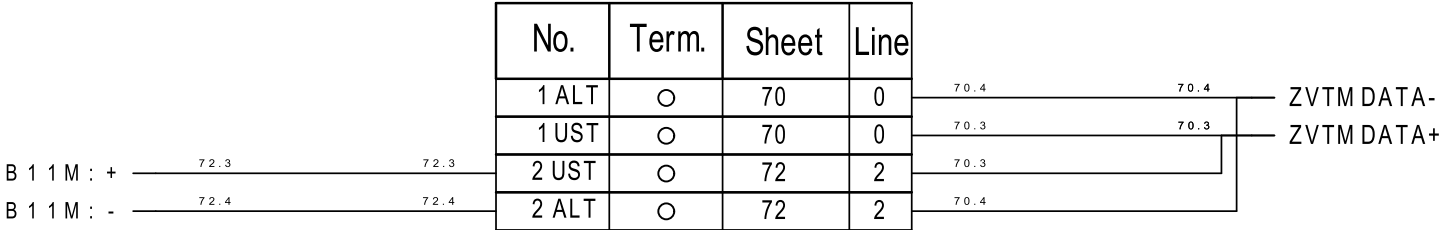


Terminal Strip

X33

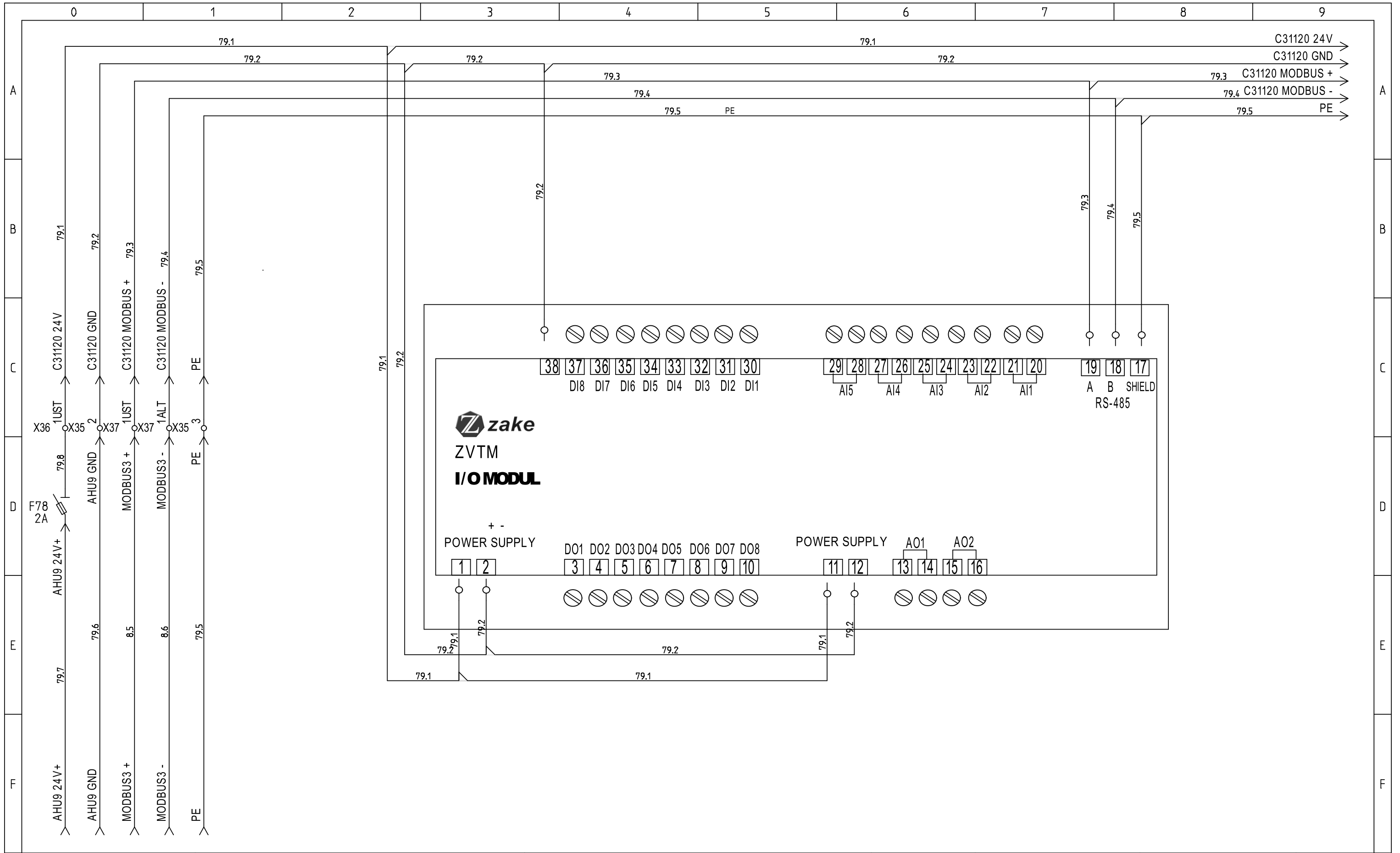


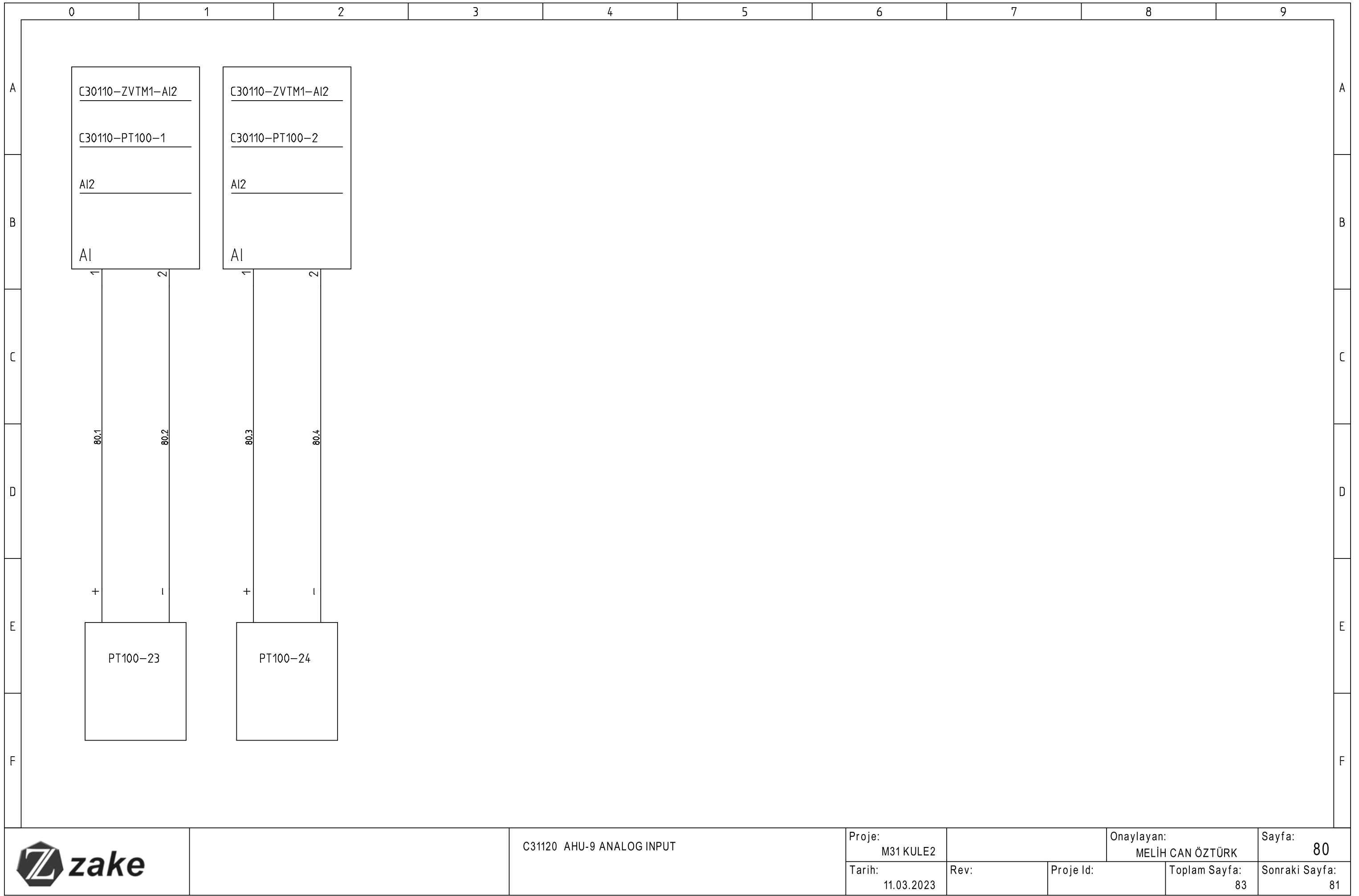
X34

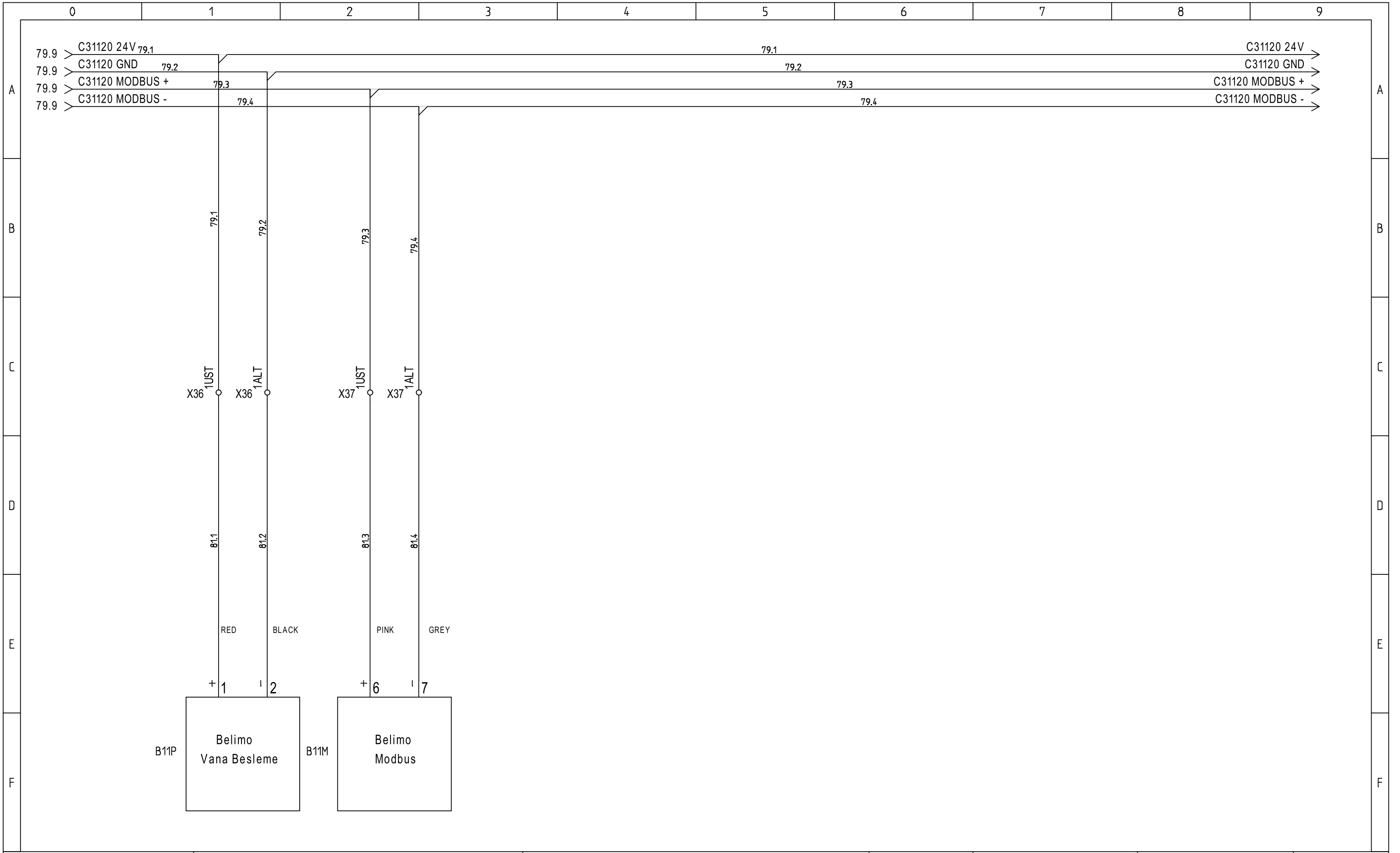


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Modification #1					Cre. Date: 8.03.2023	
Modification #2			Sheet Created by:			
Modification #3						

COMMUNICATION BOX AHU-9
C31120



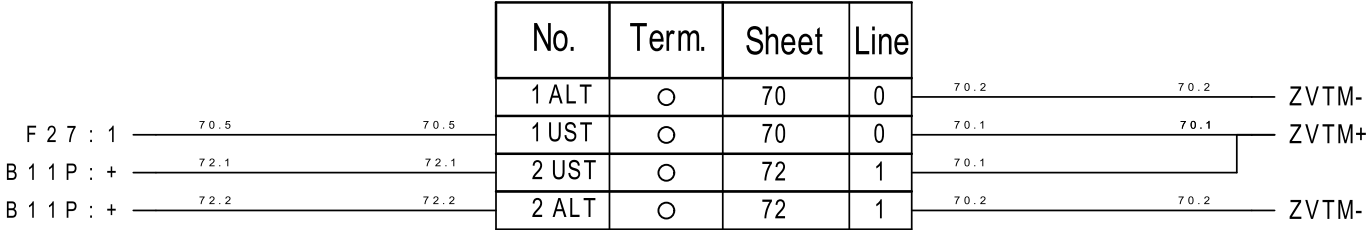




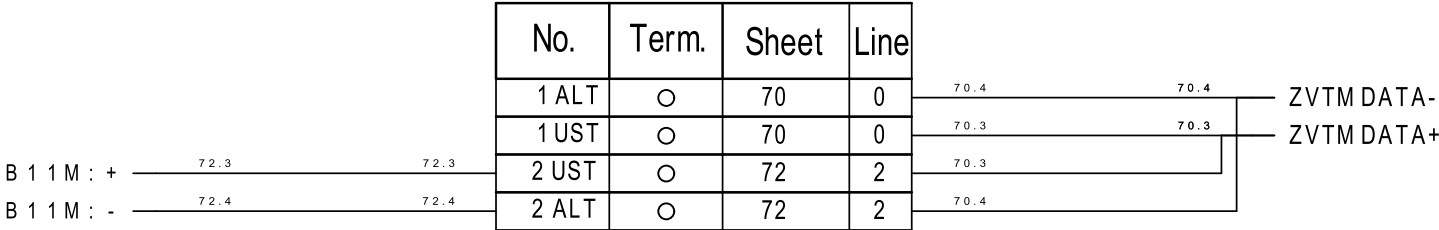
[illegible]

Terminal Strip

X36



X37



	Modifications Since Previous Revision	C30110 C31120 TERMINAL LISTS	Document Number:	Sheet: 83 of 84	Rev. Date:	Rev.:
Modification #1					Cre. Date: 11.03.2023	
Modification #2			Sheet Created by:			
Modification #3						