RENAULT

ENERGY EFFICIENCY

M20 CTA
CONTROL SYSTEM

ID	23006
DATE	20.02.2023
TOTAL PAGE	12
L-A17-CTAM1	

Escon Energy	Zake Enginnering	Renault Oyak	See Elektrical V8.2

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		2 3	Circuit Diagrams IEC	POWER SUPLLY SNOPTIK	
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		3	Circuit Diagrams IEC		
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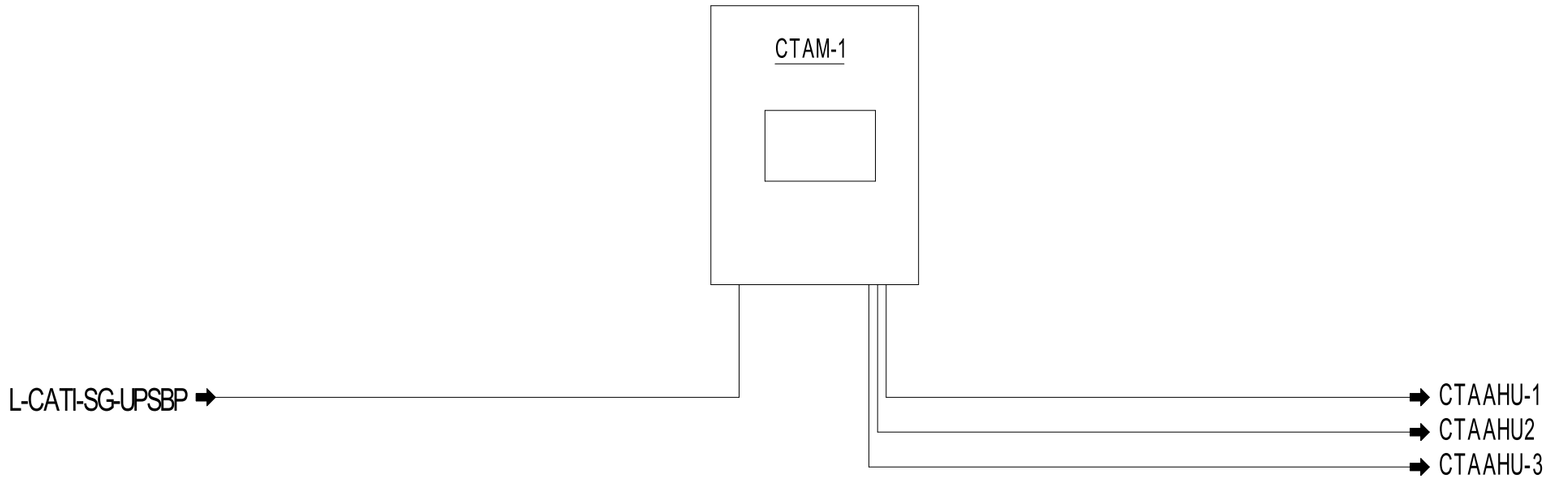
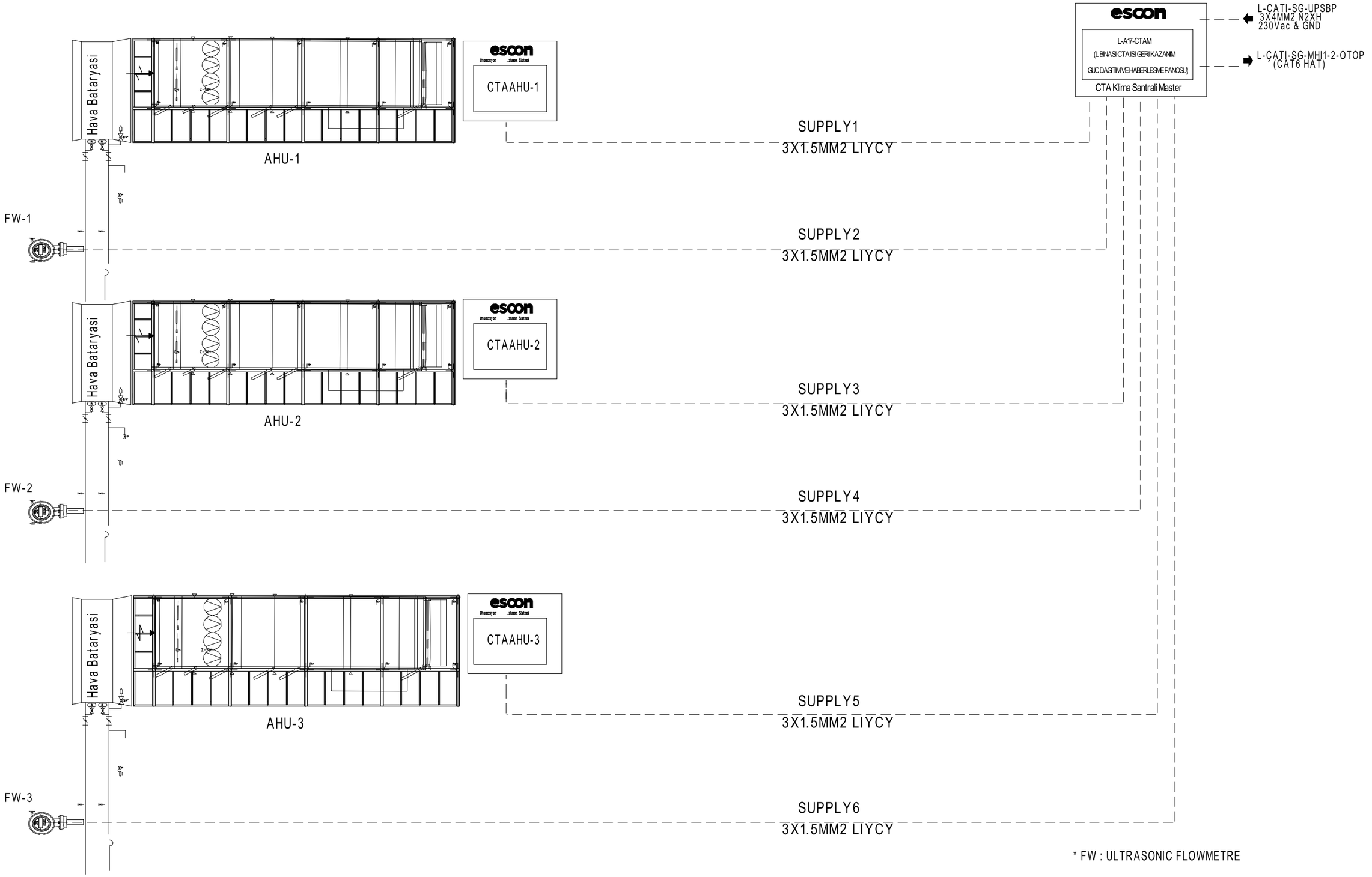
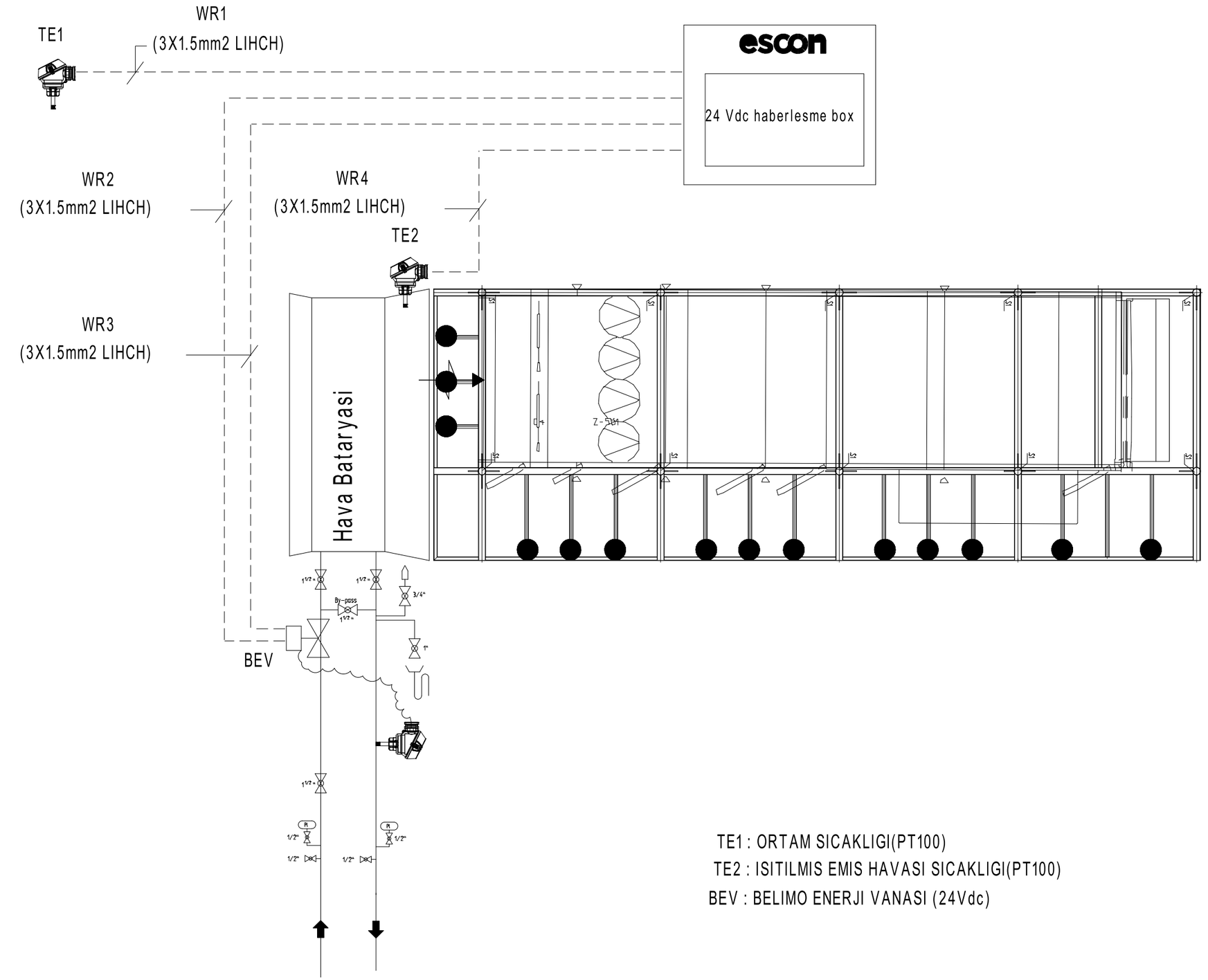
		A LIST OF DOCUMENTS	Project: M20 CTA	Drawing no.:	Rev.:	Init.:
			Date: 7.04.2023			Page: 1


CTAM-1
L-CATI-SG-UPSBP
CTAAHU-1
CTAAHU2
CTAAHU-3

zake		Proje: M20 CTA		Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 31
		Tarih: 22.06.2023	Rev:	Proje Id:	Toplam Sayfa: 14 / Sonraki Sayfa: 4



zake			Proje: M20 CTA		Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 31
			Tarih: 22.06.2023	Rev:	Proje Id:	Toplam Sayfa: 14	Sonraki Sayfa: 4



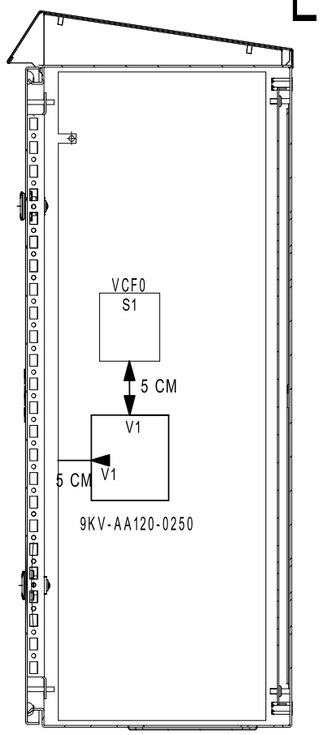
TE1 : ORTAM SICAKLIGI(PT100)

TE2 : ISITILMIS EMIS HAVASI SICAKLIGI(PT100)

BEV : BELIMO ENERJI VANASI (24Vdc)

zake			Proje: M20 CTA		Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 31
			Tarih: 22.06.2023	Rev:	Proje Id:	Toplam Sayfa: 14	Sonraki Sayfa: 4

E



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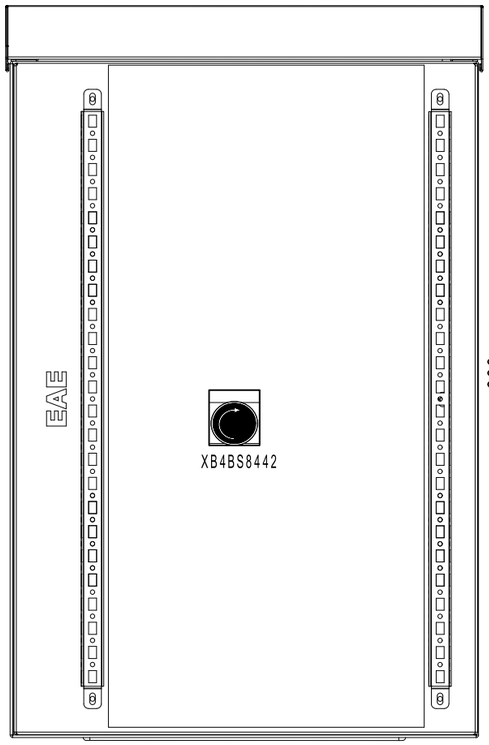

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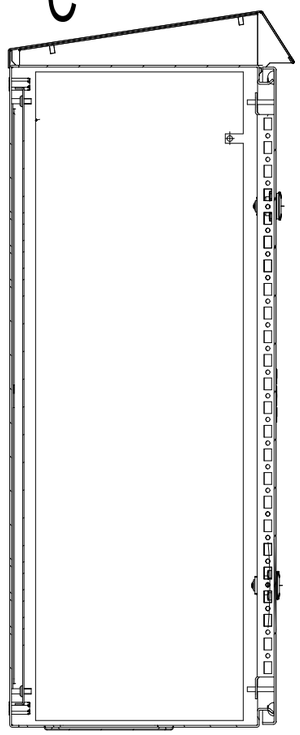
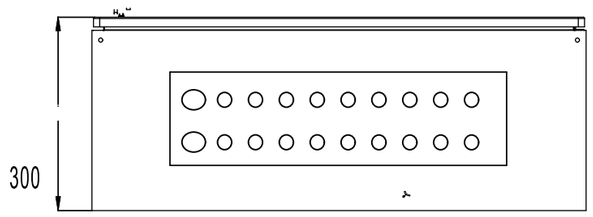
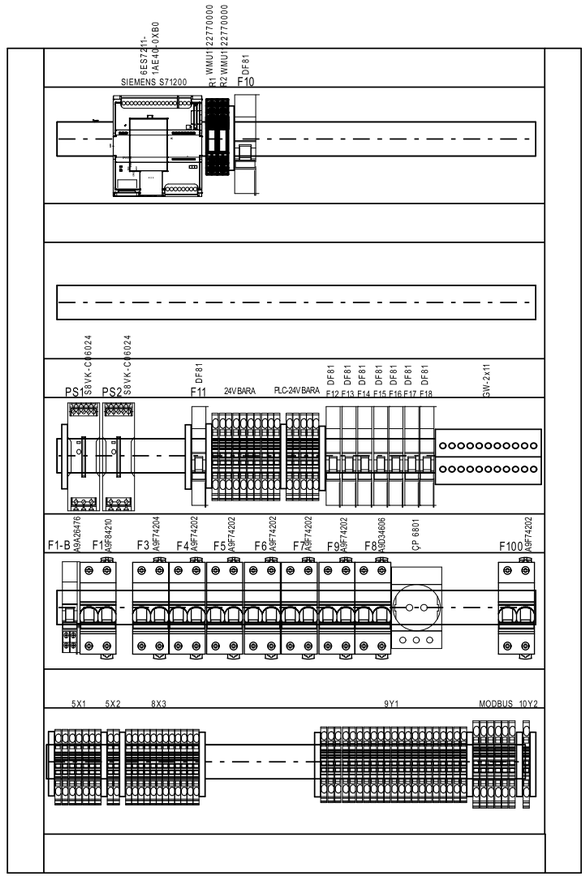
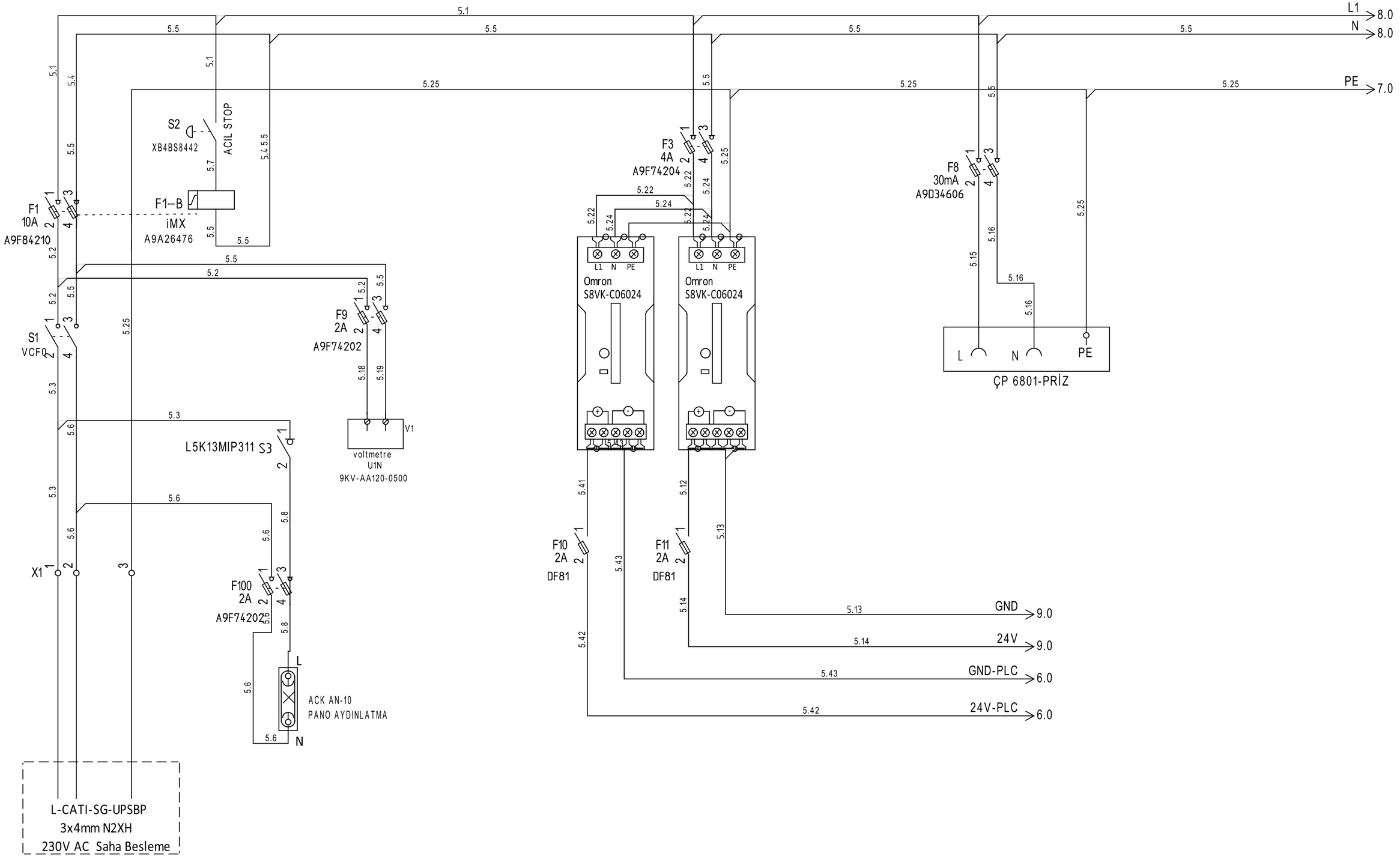




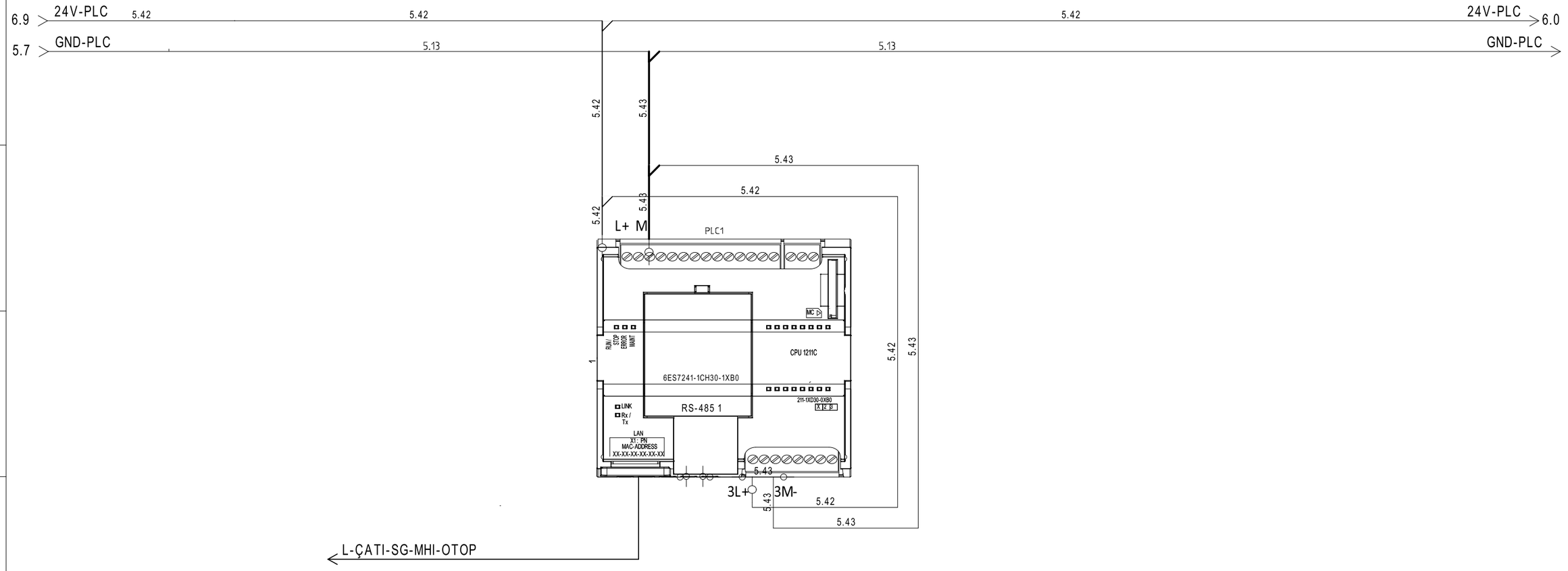
zake		DESING M20 CTA	Proje: M20 CTA	MUHAMMED KARABULUT	Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 3
			Tarih: 23.06.2023	Rev:	Proje Id:	Toplam Sayfa: 16 / Sonraki Sayfa: 4



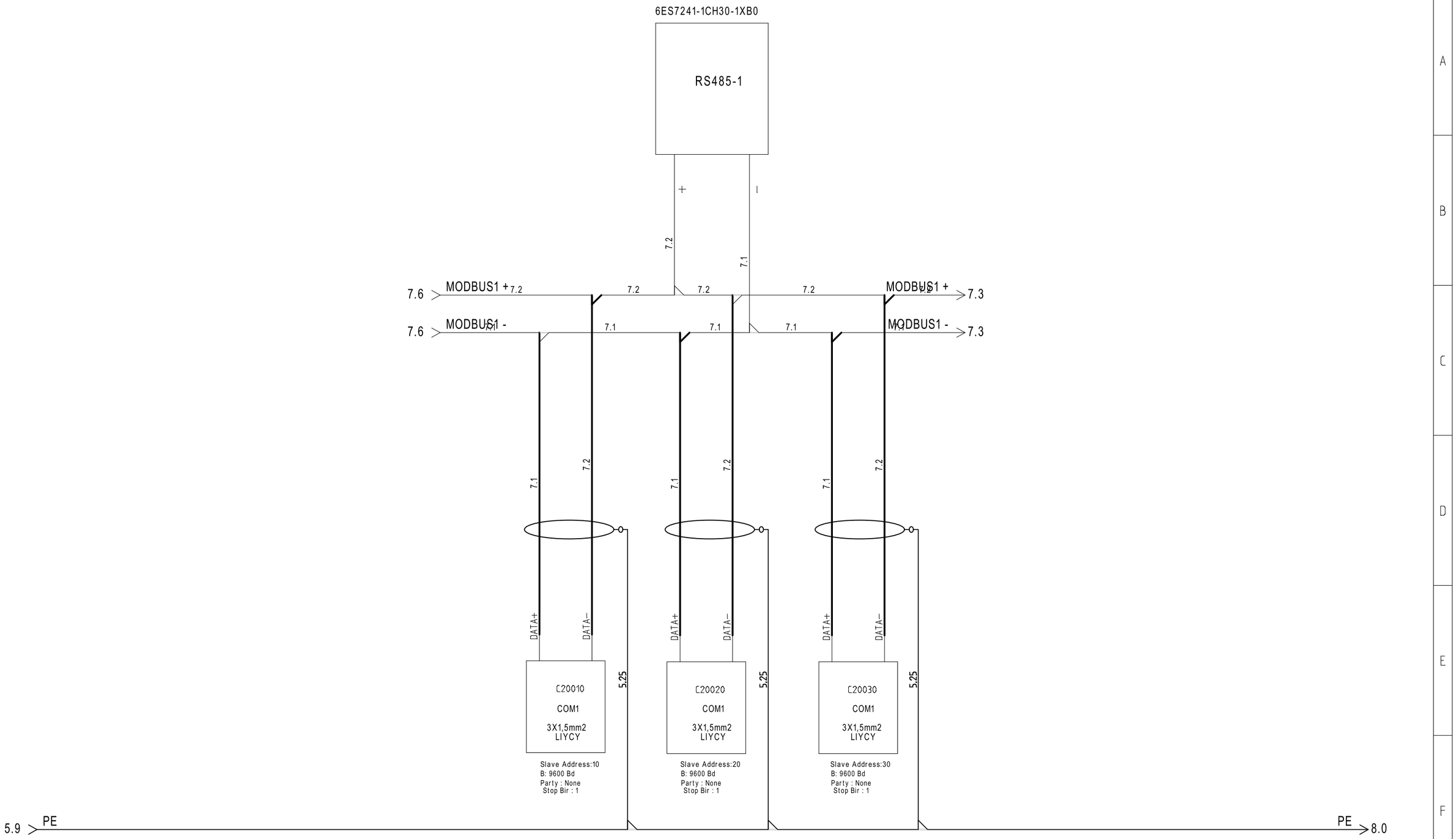
zake		DESING M20 CTA	Proje: M20 CTA	MUHAMMED KARABULUT		Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 4
			Tarih: 7.04.2023	Rev:	Proje Id:	Toplam Sayfa: 16	Sonraki Sayfa: 5



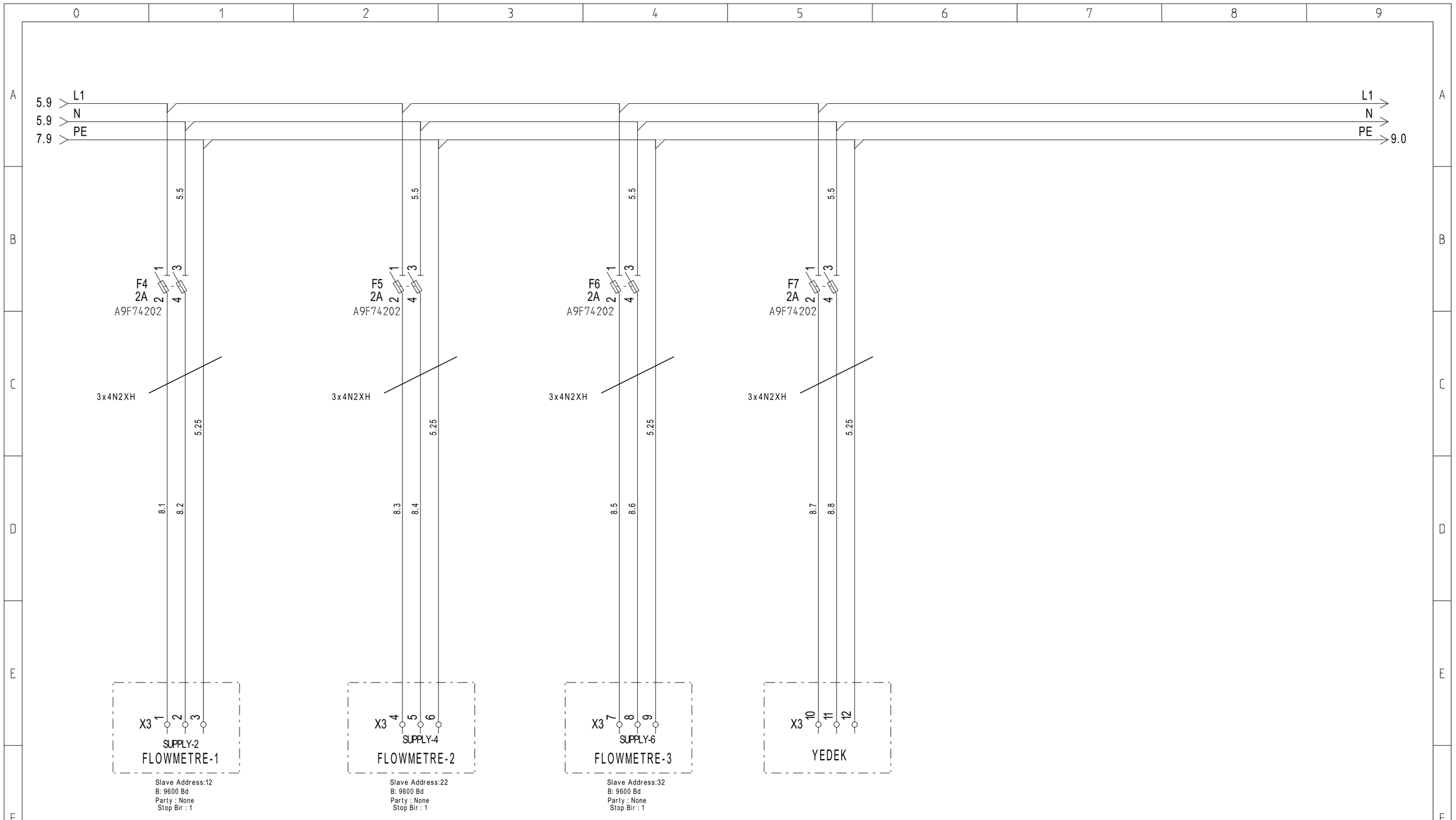
zake		M20 MAIN POWER	Proje: M20 CTA	Proje Çizen: MUHAMMED KARABULUT	Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 5
			Tarih: 7.04.2023	Rev:	Proje Id:	Toplam Sayfa: 16 / Sonraki Sayfa: 6



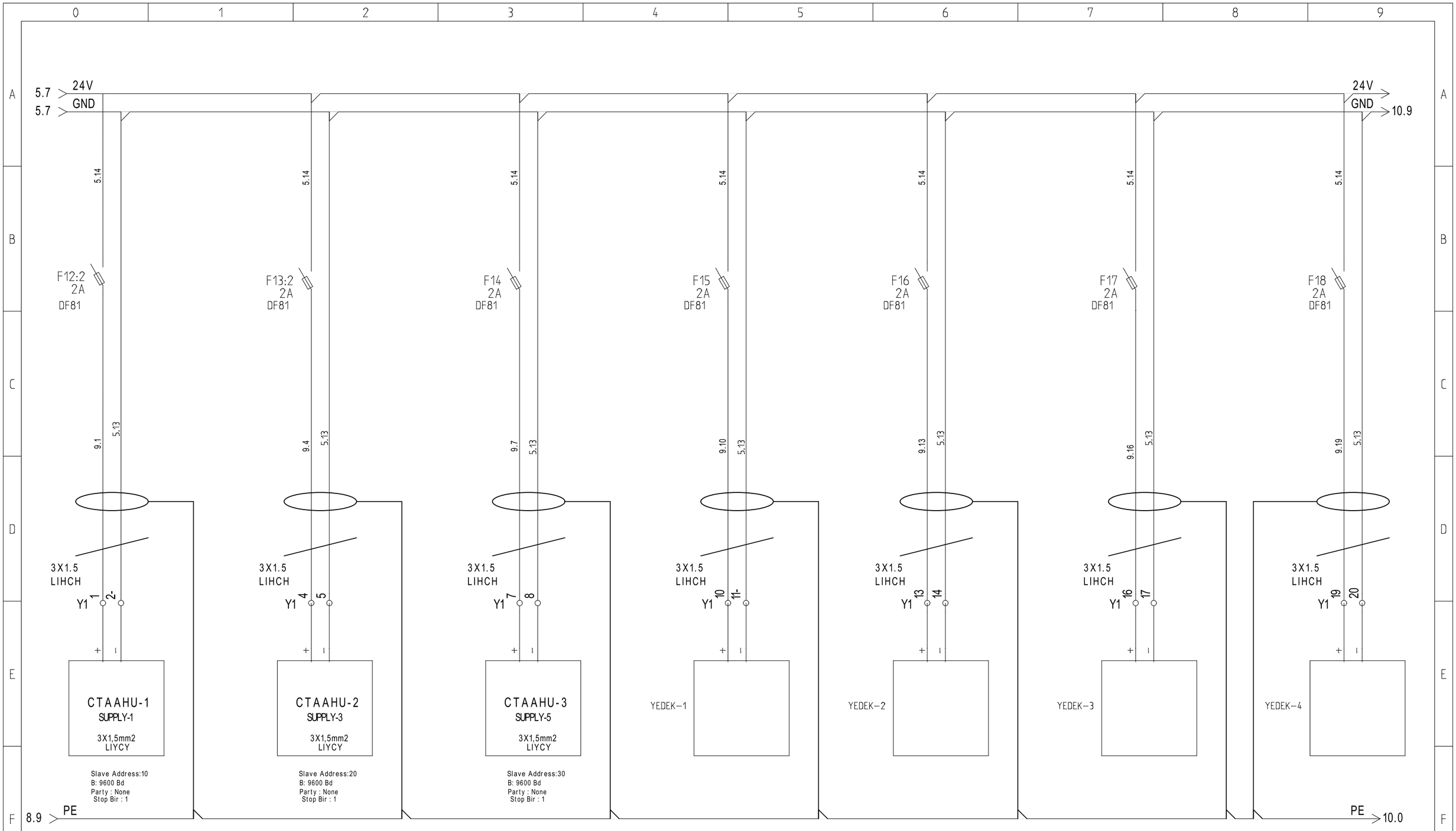
zake		M20 PLC S7 1200	Proje:	Proje Çizen: MUHAMMED KARABULUT	Onaylayan:		Sayfa: 6
			Tarih: 8.02.2023	Rev:	Proje Id:	Toplam Sayfa: 16	Sonraki Sayfa: 7



zake		M20 COMMUNICATION	Proje: M20 CTA	Proje Çizen: MUHAMMED KARABULUT	Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 7
			Tarih: 7.04.2023	Rev:	Proje Id:	Toplam Sayfa: 16	Sonraki Sayfa: 8



zake		M20 AC CONTROL	Proje: M20 CTA	Proje Çizen: MUHAMMED KARABULUT	Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 8
			Tarih: 8.04.2023	Rev:	Proje Id:	Toplam Sayfa: 16 / Sonraki Sayfa: 9



zake		M20 DC CONTROL YEDEK	Proje: M20 CTA	Proje Çizen: MUHAMMED KARABULUT	Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 9
			Tarih: 8.04.2023	Rev:	Proje Id:	Toplam Sayfa: 16 / Sonraki Sayfa: 10

ALARM	
Baut.	PLC
Adr.	DO0
Anschl.	DO0

ALARM	
Baut.	PLC
Adr.	DO1
Anschl.	DO1

ALARM	
Baut.	PLC
Adr.	DI0
Anschl.	DI0

ALARM	
Baut.	PLC
Adr.	DI1
Anschl.	DI1

10.1

10.6

10.15

10.16

R1

WMU1122770000

R2

WMU1122770000

Y3 1 UST

Y3 2 UST

10.2

10.4

R1
10.1

R2
10.2

10.2

10.4

10.3

10.5

Y2 1 ALT

Y2 1 UST

Y2 2 ALT

Y2 2 UST

YEDEK -1
3x1.5 LIYCY

YEDEK -2
3x1.5 LIYCY

10.9 GND

9.9 PE

GND 10.0

PE

zake		M20 AC DC CONTROL	Proje: M20 CTA	Proje Çizen: MUHAMMED KARABULUT		Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 10
			Tarih: 7.04.2023	Rev:	Proje Id:	Toplam Sayfa: 16	Sonraki Sayfa: 11

Bill of Materials, Terminals and Cables

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 (Ustten)	SIEMENS	1					
F1		A9F74210	iC60N - minyatür devre kesici - 2P - 10A - C eğrisi	SCHNEIDER	1					
F1-B		A9A26476	İMX - Şönt açma bobini	SCHNEIDER	1					
F3		A9F74204	iC60N - minyatür devre kesici - 2P - 4A - C eğrisi	SCHNEIDER	1					
F4		A9F74202	iC60N - minyatür devre kesici - 2P - 2A - C eğrisi	SCHNEIDER	1					
F5		A9F74202	iC60N - minyatür devre kesici - 2P - 2A - C eğrisi	SCHNEIDER	1					
F6		A9F74202	iC60N - minyatür devre kesici - 2P - 2A - C eğrisi	SCHNEIDER	1					
F7		A9F74202	iC60N - minyatür devre kesici - 2P - 2A - C eğrisi	SCHNEIDER	1					
F8		A9D34606	iDPN a Vigi - Aşırı Akım Korumalı Kaçak Akım Sigortası 1P+N - 6A C eğrisi	SCHNEIDER	1					
F9		A9F74202	iC60N - minyatür devre kesici - 2P - 2A - C eğrisi	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		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F18		DF81	Fuse carrier TeSys DF, 1P 25A, fuse size 8.5x31.5 mm	SCHNEIDER	1					
F100		A9F74204	iC60N - minyatür devre kesici - 2P - 4A - C eğrisi	SCHNEIDER	1					
BARA1		GW 2x11	2P-250V	GWEST	1					
PS1		S8VK-C06024	Omron - 2,5A Güç Kaynağı	OMRON	1					
PS2		S8VK-C06024	Omron - 2,5A Güç Kaynağı	OMRON	1					
PRIZ		Çp 6801	RAY TİPİ PRİZ	CETINKAYA	1					
S1		VCF0	TeSys Vario - acil durdurma yük ayırıcı - 25 A	SCHNEIDER	1					
S2		XB4BS8442	Harmony XB4-Acil Durdurma	SCHNEIDER	1					
S3		L5K13MIP311	KAPAK SWITCH- ACISAL HAREKETLİ 14 MM. PLS. MAK AR ALI KOL	SCHNEIDER	1					
LAMP		ACK-AN10	Ack 7,5W 6500K Beyaz Merkür LED Bant Armatür AN10- 0073	SCHNEIDER	1					
R1		WMU1122770000	24VOLT SLIM ROLE 6A	WEIDMULLER	1					
R2		WMU1122770000	24VOLT SLIM ROLE 6A	WEIDMULLER	1					
V1		9KV-AA120-0250	ANALOG VOLTMETRE	FEDERAL	1					

	Modifications Since Previous Revision
Modification #1	
Modification #2	
Modification #3	

M20 CTA
A LIST OF MATERIALS

Document Number:	Sheet: 11 of 17	Rev. Date:	Rev.:
		Cre. Date: 5.05.2023	
		Sheet Created by:	

For Technical Support Please Call 1-866-SEE-INFO

Terminal Strip

X1

No.	Term.	Sheet	Line			
1		5	0	5.3	5.3	S1:2
				5.3	5.3	S3:1
2		5	0	5.5	5.5	S1:4
				5.5	5.5	F100:1
3		5	0	5.25	5.25	PE
3		5	0	5.25	5.25	PE
3		5	0	5.25	5.25	PE

Terminal Strip

X3

No.	Term.	Sheet	Line			
1		8	1	8.1	8.1	8F4:2
2		8	2	8.2	8.2	8F4:4
3		8	3	5.25	5.25	PE
4		8	4	8.3	8.3	8F5:2
5		8	5	8.4	8.4	8F5:4
6		8	6	5.25	5.25	PE
7		8	7	8.5	8.5	8F6:2
8		8	8	8.6	8.6	8F6:4
9		8	9	5.25	5.25	PE
10		8	10	8.7	8.7	8F7:2
11		8	11	8.8	8.8	8F7:4
12		8	12	5.25	5.25	PE

Terminal Strip

MODBUS

No.	Term.	Sheet	Line			
1 UST		7	2	7.1	7.1	C20010 DATA+
1 ALT		7	2	7.2	7.2	C20010 DATA-
2 UST		7	2	7.2	7.2	C20020 DATA+
2 ALT		7	2	7.2	7.2	C20020 DATA-
3 UST		7	2	7.2	7.2	C20030 DATA+
3 ALT		7	2	7.2	7.2	C20030 DATA-

zake

TERMINAL STRIP

Proje: M20 CTA	Proje Çizen: MUHAMMED KARABULUT	Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 12
Tarih: 8.04.2023	Rev:	Proje Id:	Toplam Sayfa: 16 / Sonraki Sayfa: 13

Terminal Strip

Y1

	No.	Term.	Sheet	Line			
CTAAHU-1-	1	○	9	0	9.1	9.1	F12:2
CTAAHU-1-	2.	◎	9	0	5.22	5.22	GND
CTAAHU-2-	4	○	9	2	9.4	9.4	F13:2
CTAAHU-2-	5	◎	9	2	5.22	5.22	GND
CTAAHU-3-	7	○	9	3	9.7	9.7	F14:2
CTAAHU-3-	8	◎	9	3	5.22	5.22	GND
YEDEK	10	○	9	5	9.10	9.10	F15:2
YEDEK	11-	◎	9	5	5.22	5.22	GND
YEDEK	13	○	9	6	9.13	9.13	F16:2
YEDEK	14	◎	9	6	5.22	5.22	GND
YEDEK	16	○	9	7	9.16	9.16	F17:2
YEDEK	17	◎	9	7	5.22	5.22	GND
YEDEK	19	○	9	9	9.19	9.19	F18:2
YEDEK	20	◎	9	9	5.22	5.22	GND

Y2

1 UST	○	10	6	10.3	10.3	R1:NO
2 UST	○	10	8	10.5	10.5	R2:NO
1 ALT	○	10	7	10.2	10.2	R1:COM
2 ALT	○	10	8	10.4	10.4	R2:COM

Y3

No.	Term.	Sheet	Line			
1	○	10	4	10.7	10.7	PLC:DI0
2	○	10	5	10.8	10.8	PLC:DI1

zake		TERMINAL STRIPS	Proje: M20 CTA	Proje Çizen: MUHAMMED KARABULUT	Onaylayan: MELİH CAN ÖZTÜRK	Sayfa: 13
			Tarih: 8.04.2023	Rev:	Proje Id:	Toplam Sayfa: 16 / Sonraki Sayfa: