

for

PurchaserVena new energy company / TW

UserSiemens Limited (Taipei)

Plant33KV MAIN SUBSTATION

Plant section8DA10 SWITCHGEAR 33,0 kV  
GENERAL DOCUMENTS

Typical=HZ00

Project reference number

Date of issue29.04.21

Customer document number

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Revision	Modification	Date	Name

SIEMENS AG

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Documentation identifierA / =H00 / / 1

Manufacturer document number(3) W92210-L1965-U001-A

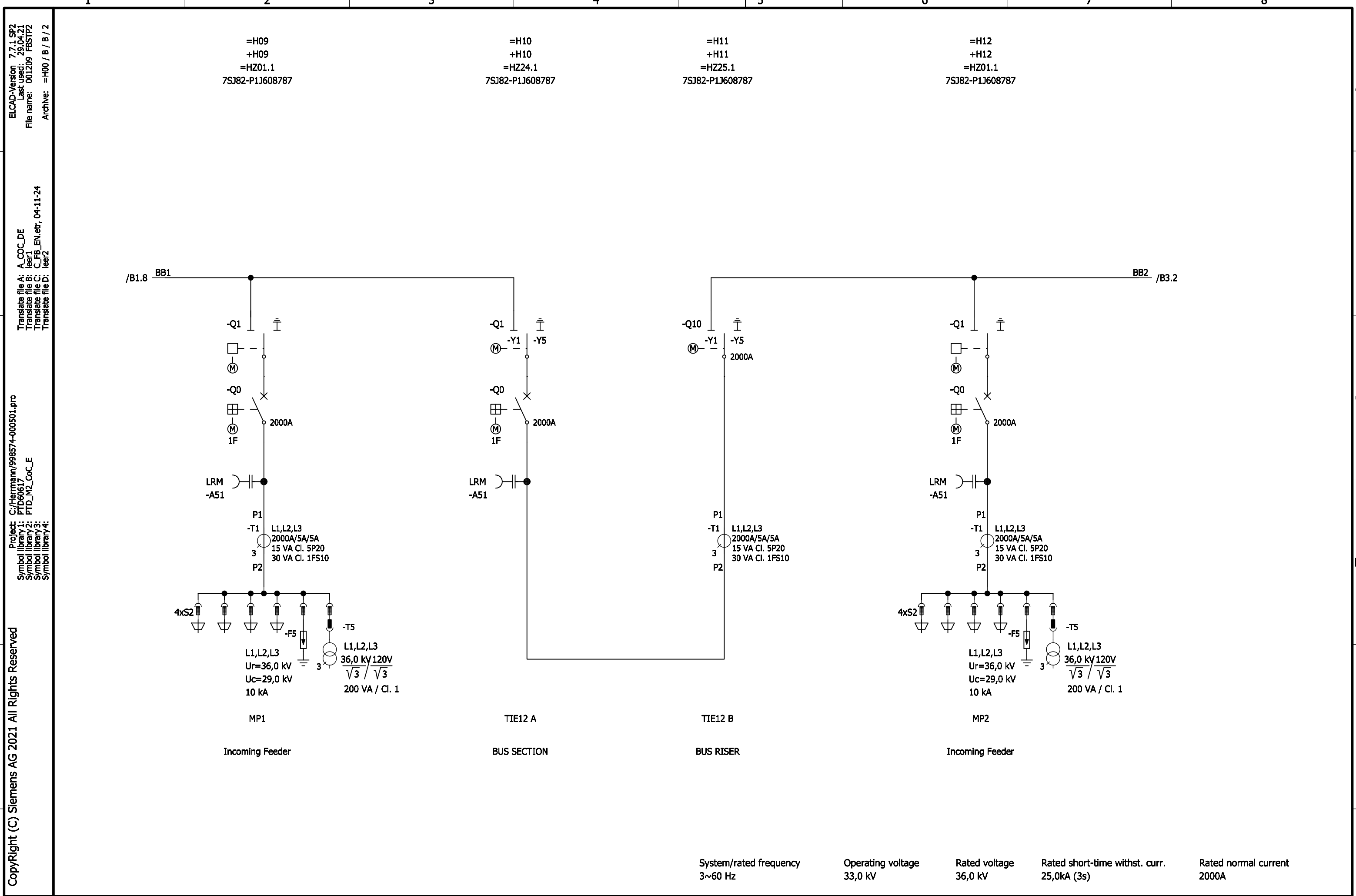
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	H			=H00 +H00			H1			(3) W92210-L1965-S008						1+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS PLANT VIEW Circuit diagram						EM MS O GIS SWF PR OP SEN FFM																						
B	F			=H00 +H00			H2			(3) W92210-L1965-S008						2+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS PLANT VIEW Circuit diagram						EM MS O GIS SWF PR OP SEN FFM																						
	H			=H00 +H00			H3			(3) W92210-L1965-S008						3+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS PLANT VIEW Circuit diagram						EM MS O GIS SWF PR OP SEN FFM																						
	H			=H00 +H00			H4			(3) W92210-L1965-S008						4-	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS PLANT VIEW Circuit diagram						EM MS O GIS SWF PR OP SEN FFM																						
	S			=H00 +H00			G1			(3) W92210-L1965-S008						1+	20	07.04.2021	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS BUS WIRE DIAGRAM Circuit diagram						EM MS O GIS SWF PR OP SEN FFM																						
C	S			=H00 +H00			G2			(3) W92210-L1965-S008						2+	20	07.04.2021	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS BUS WIRE DIAGRAM Circuit diagram						EM MS O GIS SWF PR OP SEN FFM																						
	S			=H00 +H00			G3			(3) W92210-L1965-S008						3+	20	07.04.2021	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS BUS WIRE DIAGRAM Circuit diagram						EM MS O GIS SWF PR OP SEN FFM																						
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Date 07.04.2021 Drawn Herrmann Appr. Jacobi																																															
Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION																																															
Siemens AG												8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS						=HZ00			A		=H00 +H00		A2																						
Revision												change PCMI I			29.04.21		HE		Appr.		Jacobi		33KV MAIN SUBSTATION						Sheet 2+																		
Revision												Modification			Date		Name		Norm		Orig./Prep.for/Prep.by						List of documents			998574-000501		(3) W92210-L1965-L002-A				4 Sh.											
1						2						3						4						5						6						7						8					

		1		2		3		4		5		6		7		8	
A	B	Designation		Manufacturer document number Customer document number		Sheet	Sheets	Date	Description		Prepared by						
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				Drawn	Herrmann												
A		change PCMI I		29.04.21	HE	Appr.	Jacobi									Sheet 3+	
Revision		Modification		Date	Name	Norm			Orig./Prep.for/Prep.by		List of documents		998574-000501		(3) W92210-L1965-L002-A		4 Sh.
1		2		3		4		5		6		7		8			

A	1				2				3				4				5				6				7				8									
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Revision    Modification    Date    Name    Norm    Date    07.04.2021    Drawn    Herrmann    Vena new energy company / TW 																																						





Copyright (C) Siemens AG 2021 All Rights Reserved					System/rated frequency 3~60 Hz					Operating voltage 33,0 kV					Rated voltage 36,0 kV					Rated short-time withst. curr. 25,0kA (3s)					Rated normal current 2000A				
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Drawn Herrmann					Siemens Limited (Taipei)					33KV MAIN SUBSTATION					Overview diagram					998574-000501					(3) W92210-L1965-S003-A				
Appr. Jacobi					Orig./Prep.for/Prep.by																				Sheet 2				
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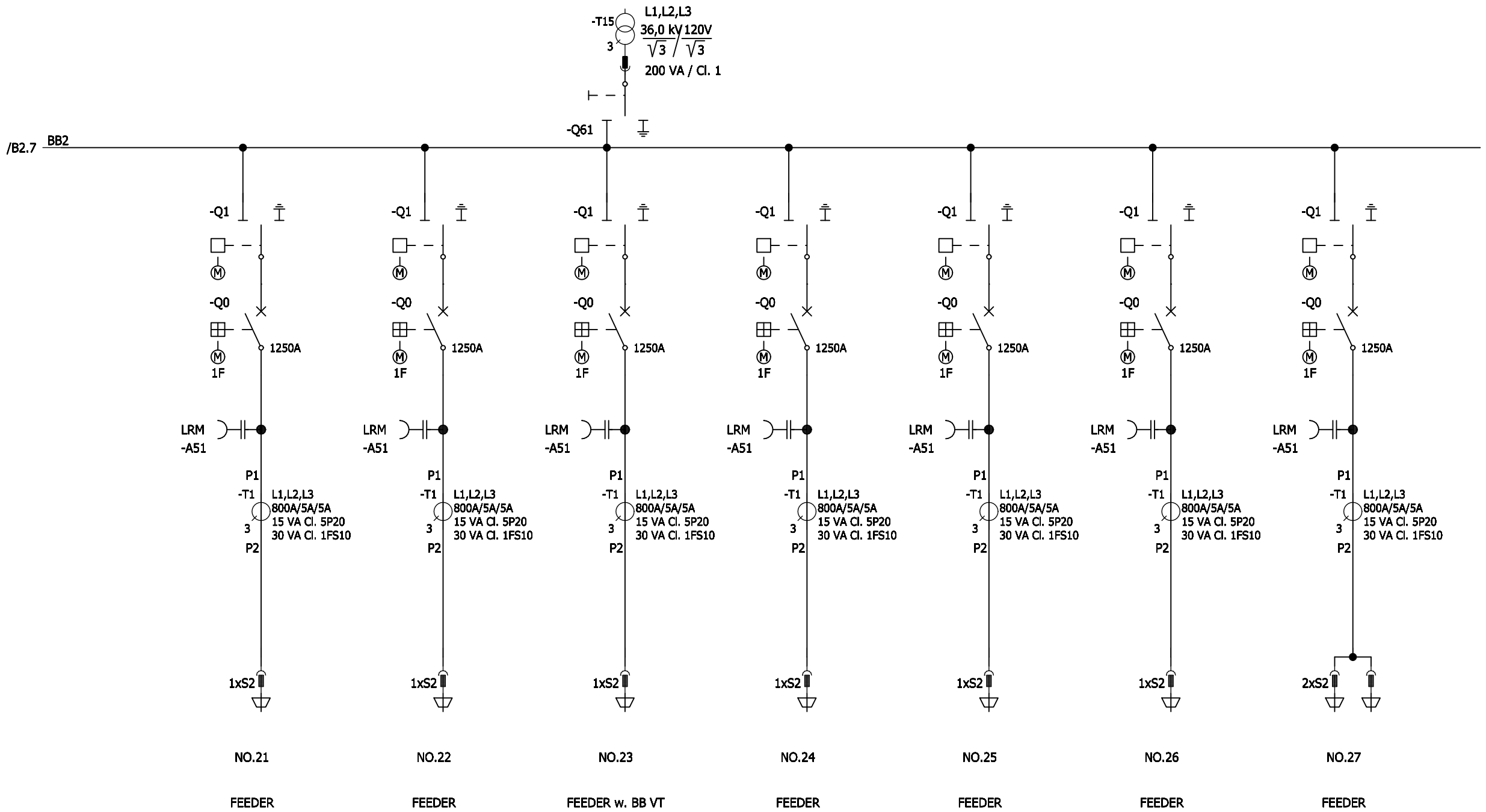
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				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	
A	change PCMI I	29.04.21	HE	Appr.	Jacobi		
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by	

Siemens AG		8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS SWITCHGEAR OVERVIEW Overview diagram		998574-000501		(3) W92210-L1965-S003-A		=HZ00		B =H00 +H00		B3 Sheet 3+ 6 Sh.	





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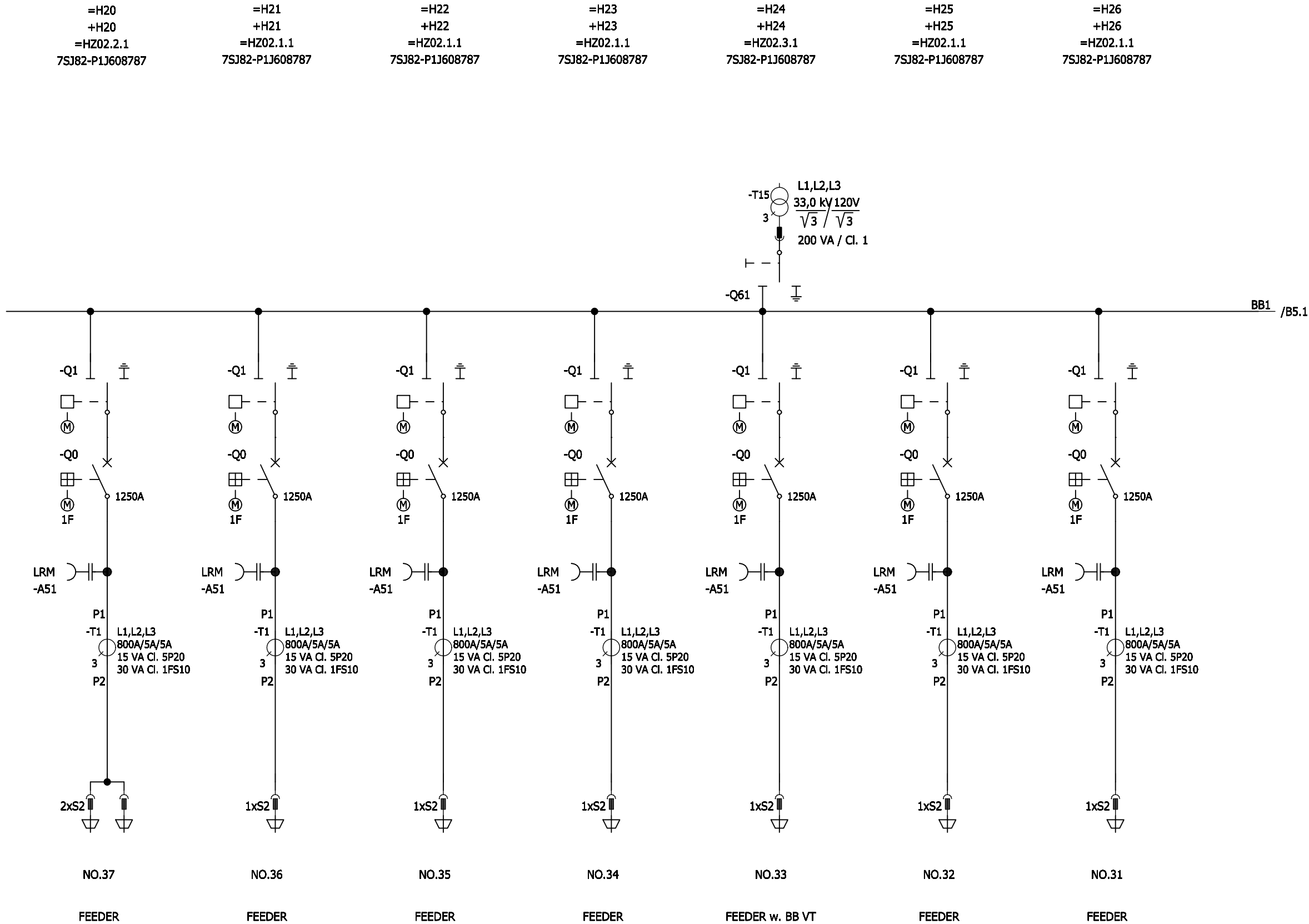
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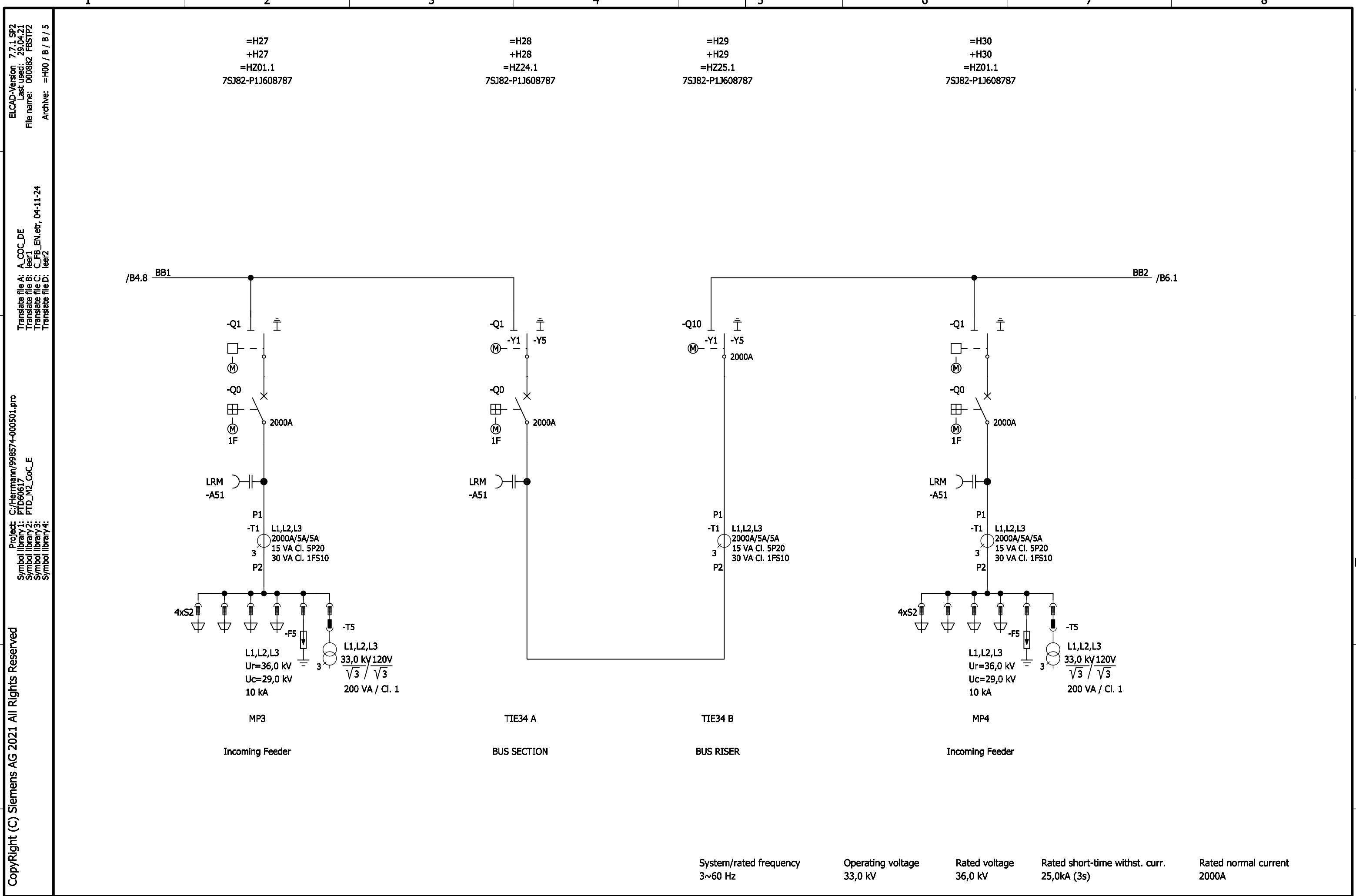
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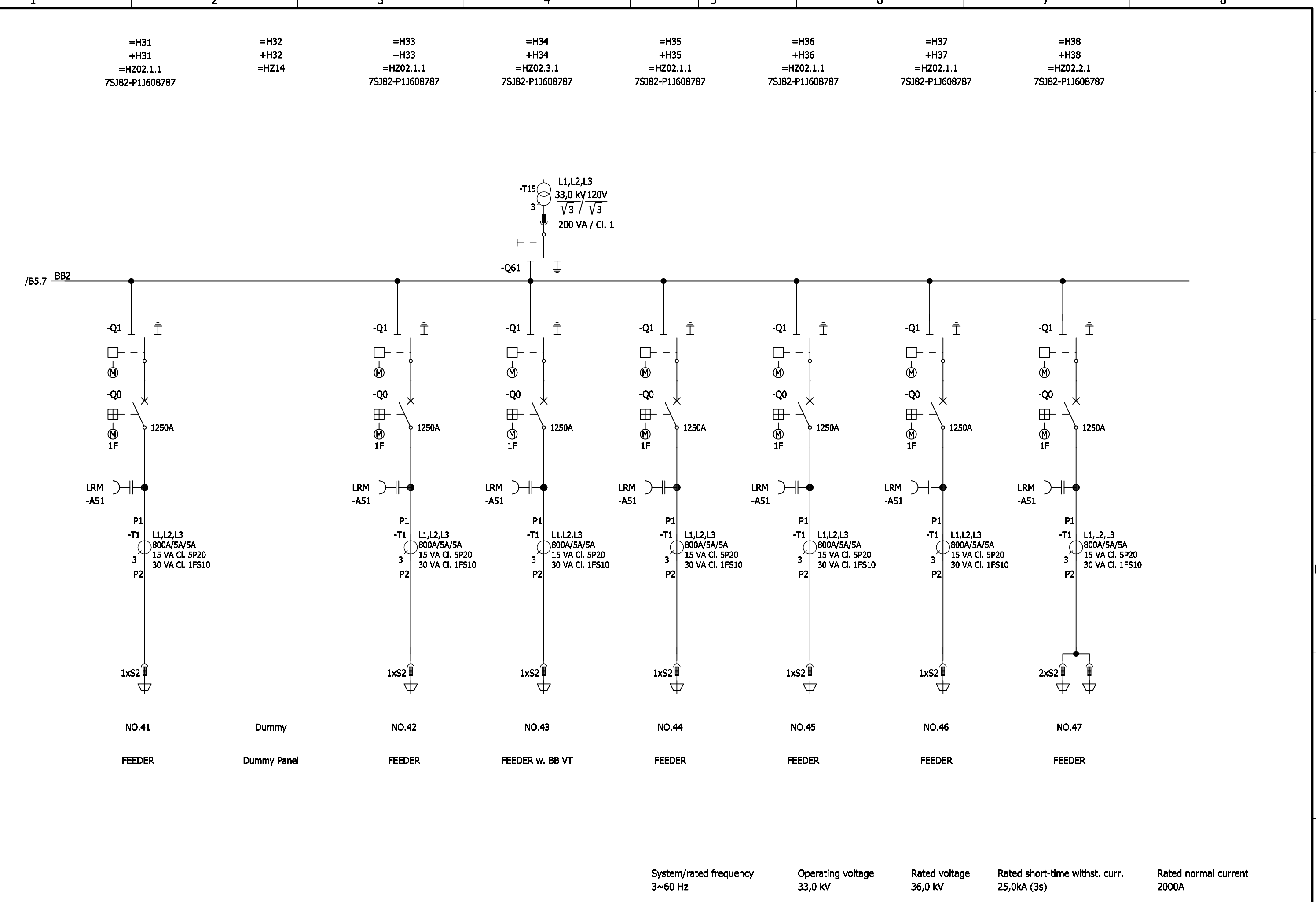
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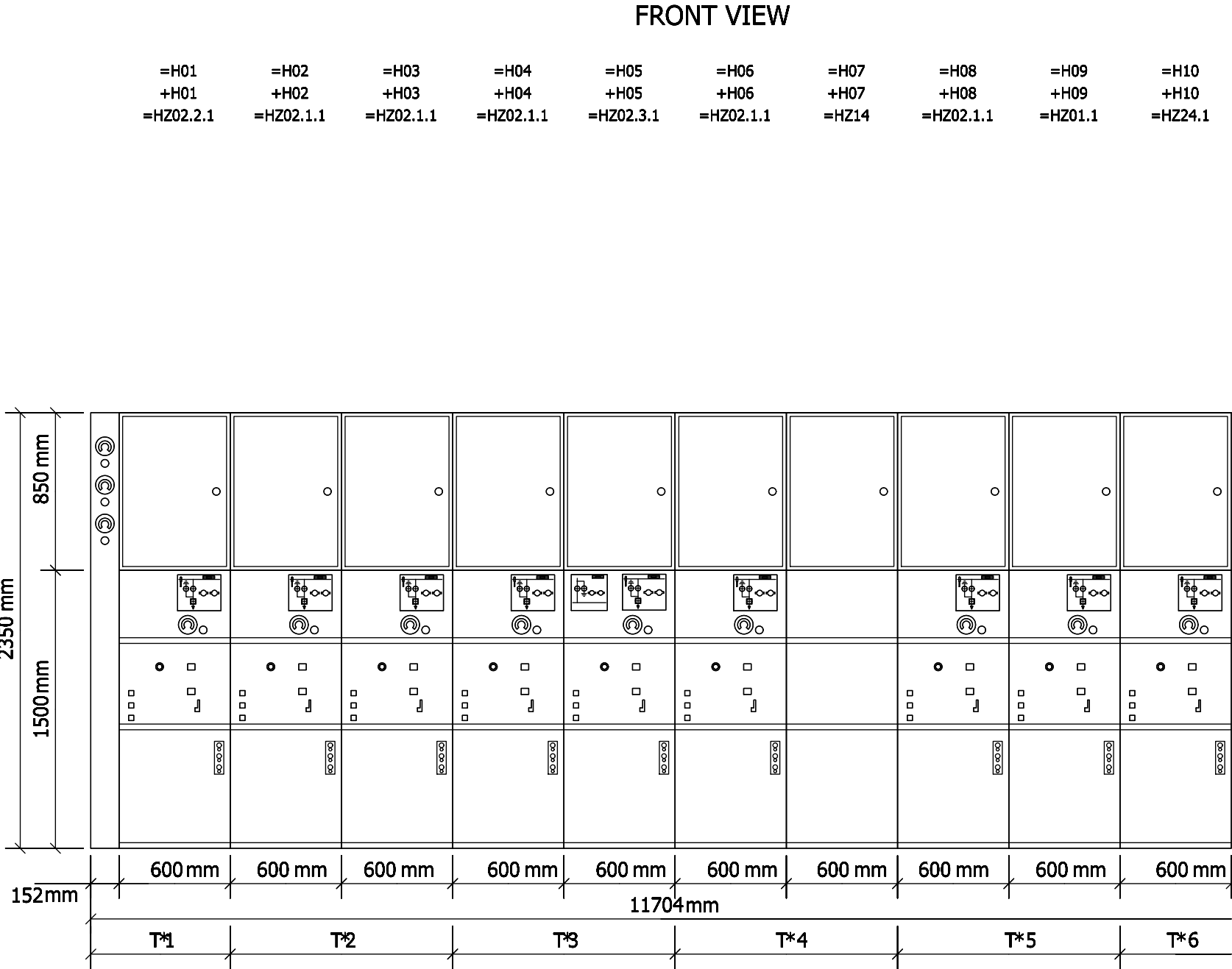
System/rated frequency 3~60 Hz  
Operating voltage 33,0 kV  
Rated voltage 36,0 kV  
Rated short-time withst. curr. 25,0kA (3s)  
Rated normal current 2000A



				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS SWITCHGEAR OVERVIEW			=HZ00	B	=H00	
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Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Overview diagram						Next 6



				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS SWITCHGEAR OVERVIEW		=HZ00	B	=H00	
				Drawn	Herrmann	Siemens Limited (Taipei)							
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Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Overview diagram	998574-000501	(3) W92210-L1965-S003-A			6 Sh.



System/rated frequency 3~60 Hz	Operating voltage 33,0 kV	Rated voltage 36,0 kV	Rated short-time withst. curr. 25,0kA (3s)	Rated normal current 2000A
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				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS DOOR LAYOUT (=MZ01) Arrangement drawing			=HZ00	D	=H00		
				Drawn	Herrmann	Siemens Limited (Taipei)							+H00		D1
A	change PCMI I	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION							Sheet 1+		
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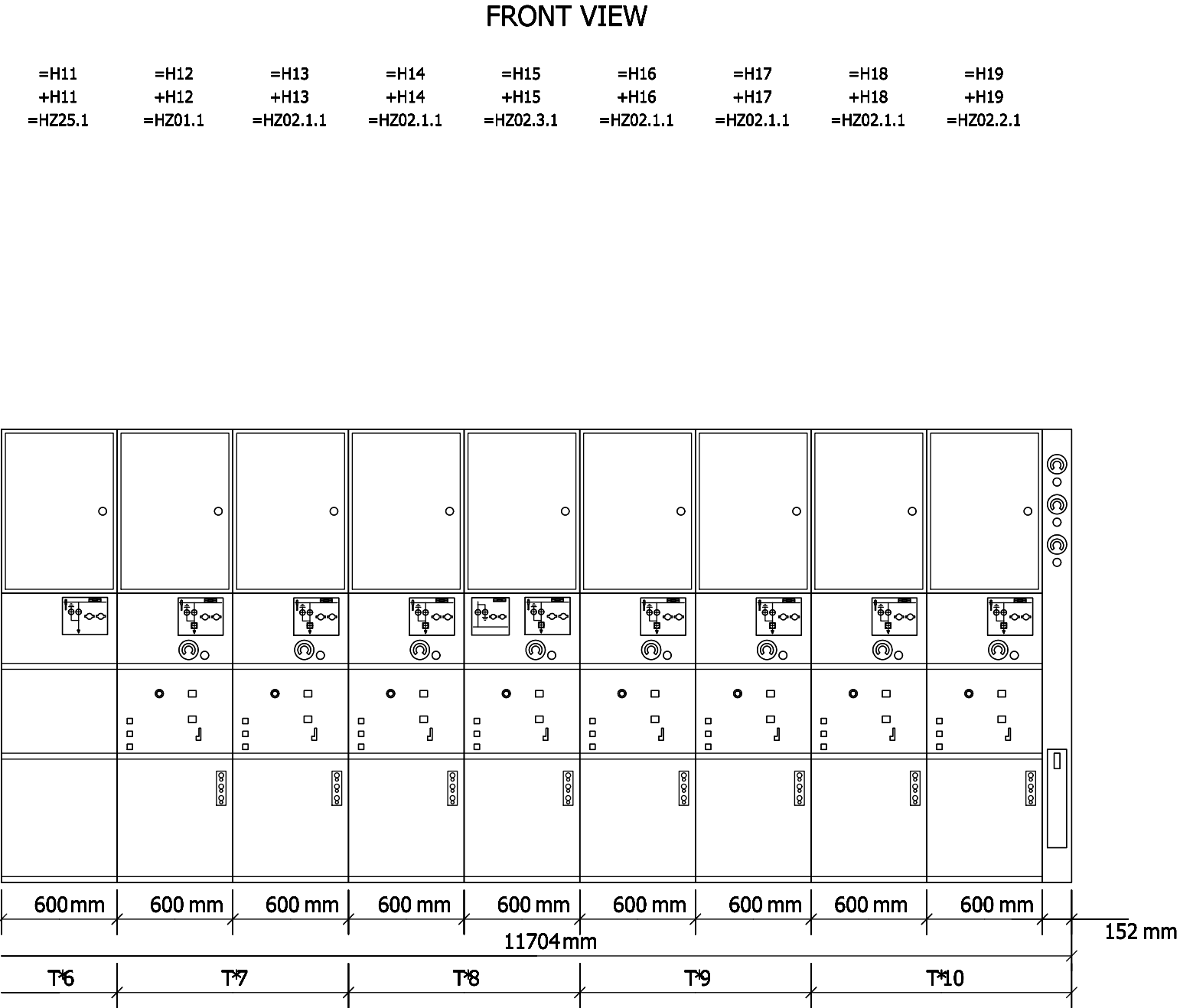
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Translate file D: leer2

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System/rated frequency  
3~60 Hz

Operating voltage  
33,0 kV

Rated voltage  
36,0 kV

Rated short-time withst. curr.  
25,0kA (3s)

Rated normal current  
2000A

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS DOOR LAYOUT (=MZ01) Arrangement drawing			=HZ00	D	=H00	
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Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by	4 Sh.							

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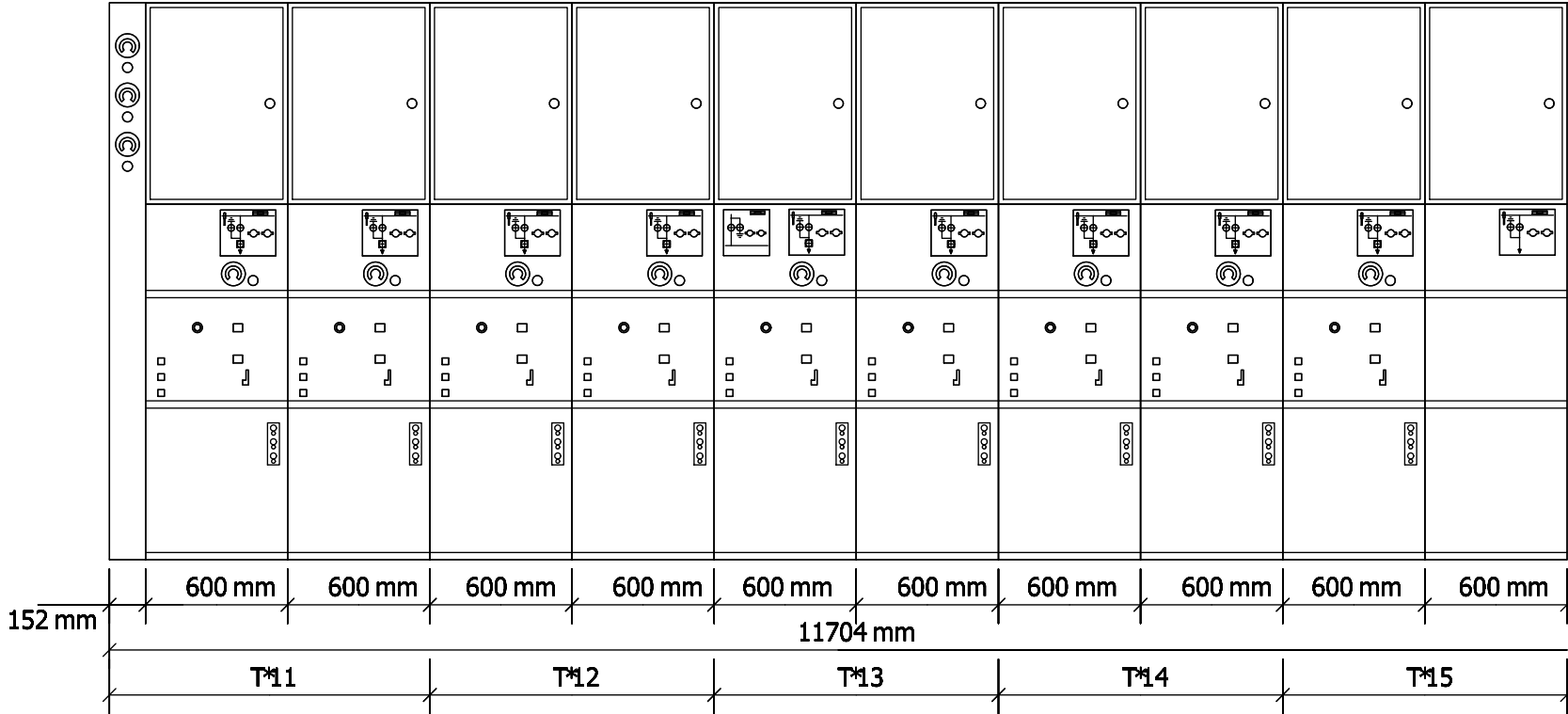
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System/rated frequency	Operating voltage	Rated voltage	Rated short-time withst. curr.	Rated normal current
3~60 Hz	33,0 kV	36,0 kV	25,0kA (3s)	2000A

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS DOOR LAYOUT (=MZ01) Arrangement drawing			=HZ00	D	=H00		
				Drawn	Herrmann	Siemens Limited (Taipei)							+H00		D3
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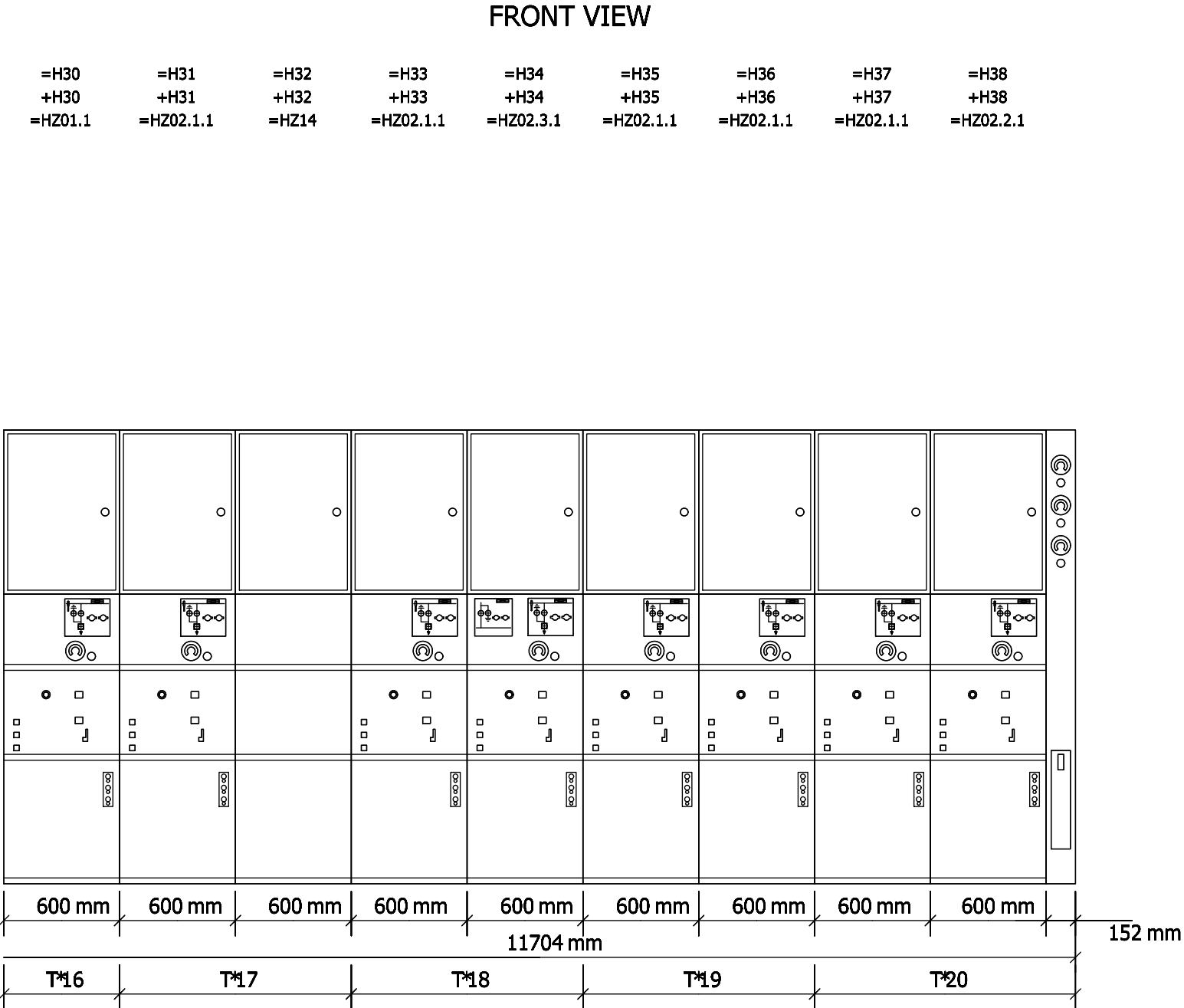
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System/rated frequency  
3~60 Hz

Operating voltage  
33,0 kV

Rated voltage  
36,0 kV

Rated short-time withst. curr.  
25,0kA (3s)

Rated normal current  
2000A

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS DOOR LAYOUT (=MZ01) Arrangement drawing			=HZ00	D	=H00	
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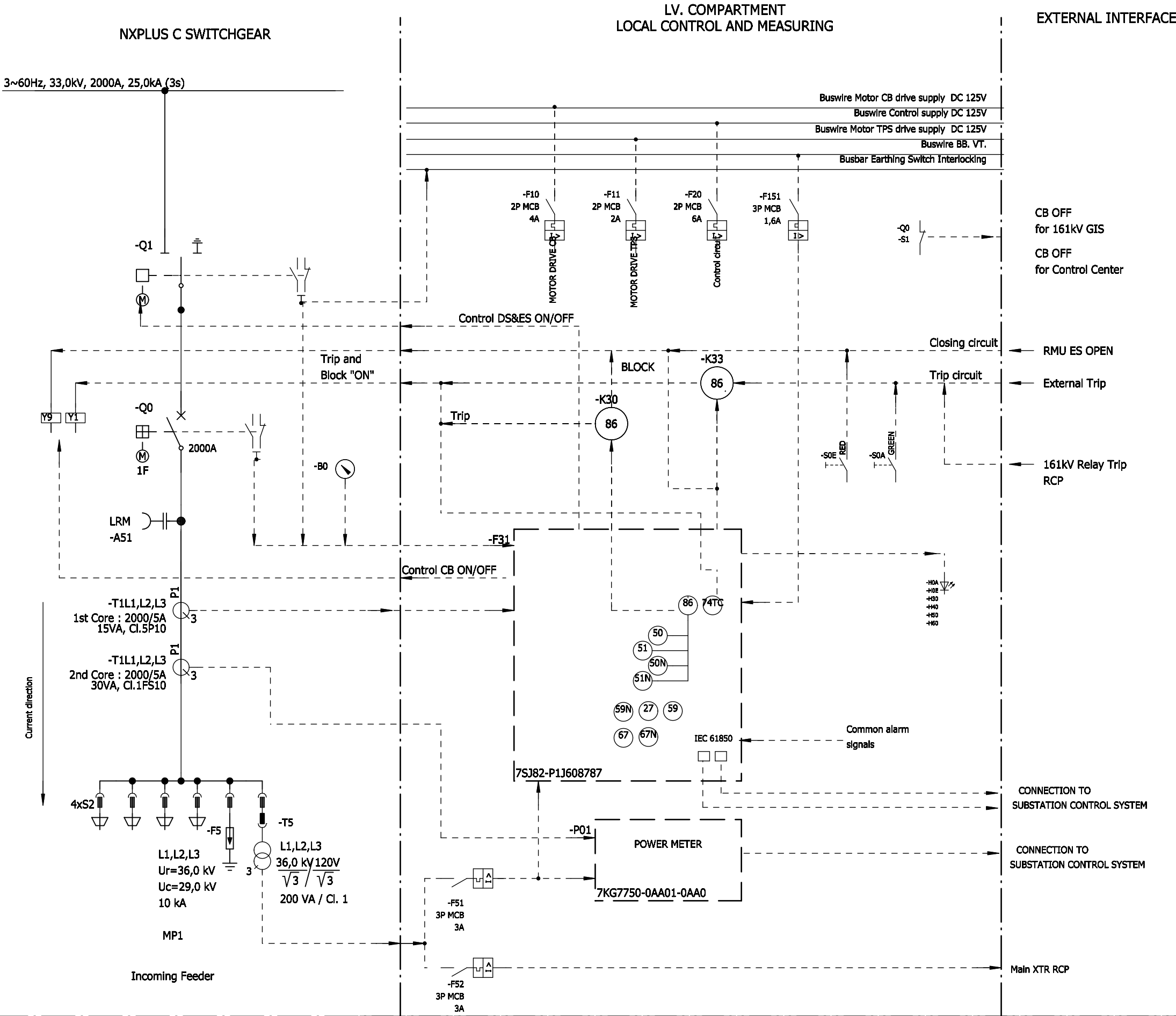
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Drawings will be applied for panel

- 1) H09 Incoming Feeder 2000 A
- 2) H12 Incoming Feeder 2000 A
- 3) H27 Incoming Feeder 2000 A
- 4) H30 Incoming Feeder 2000 A

Legend

- Q0 Motorized Circuit-Breaker
- Q1 Hand Operated 3 Position Switch
- B0... GAS PRESSURE MONITORING
- T1 Current Transformer
- T5 VOLTAGE Transformer
- 50 Instantaneous Overcurrent
- 50N Instantaneous Earth-fault Overcurrent
- 51 Time-Overcurrent, phase
- 51N Time-Overcurrent, earth
- 59 Overvoltage prot.
- 86 Lockout function
- 67 Directional overcurrent
- 67N Directional earth-fault overcurrent
- 27 Undervoltage prot.

-A51 Voltage Indicator LRM



System/rated frequency 3~60 Hz

Operating voltage 33,0 kV

Rated voltage 36,0 kV

Rated short-time withst. curr. 25,0kA (3s)

Rated normal current 2000A

				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS INCOMING FEEDER (=MZ01)  Circuit diagram		=HZ00	F	=H00	
				Drawn	Herrmann								+H00
A	change PCMI I	29.04.21	HE	Appr.	Jacobi								Sheet 1+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by			998574-000501	(3) W92210-L1965-S008-A			6 Sh.



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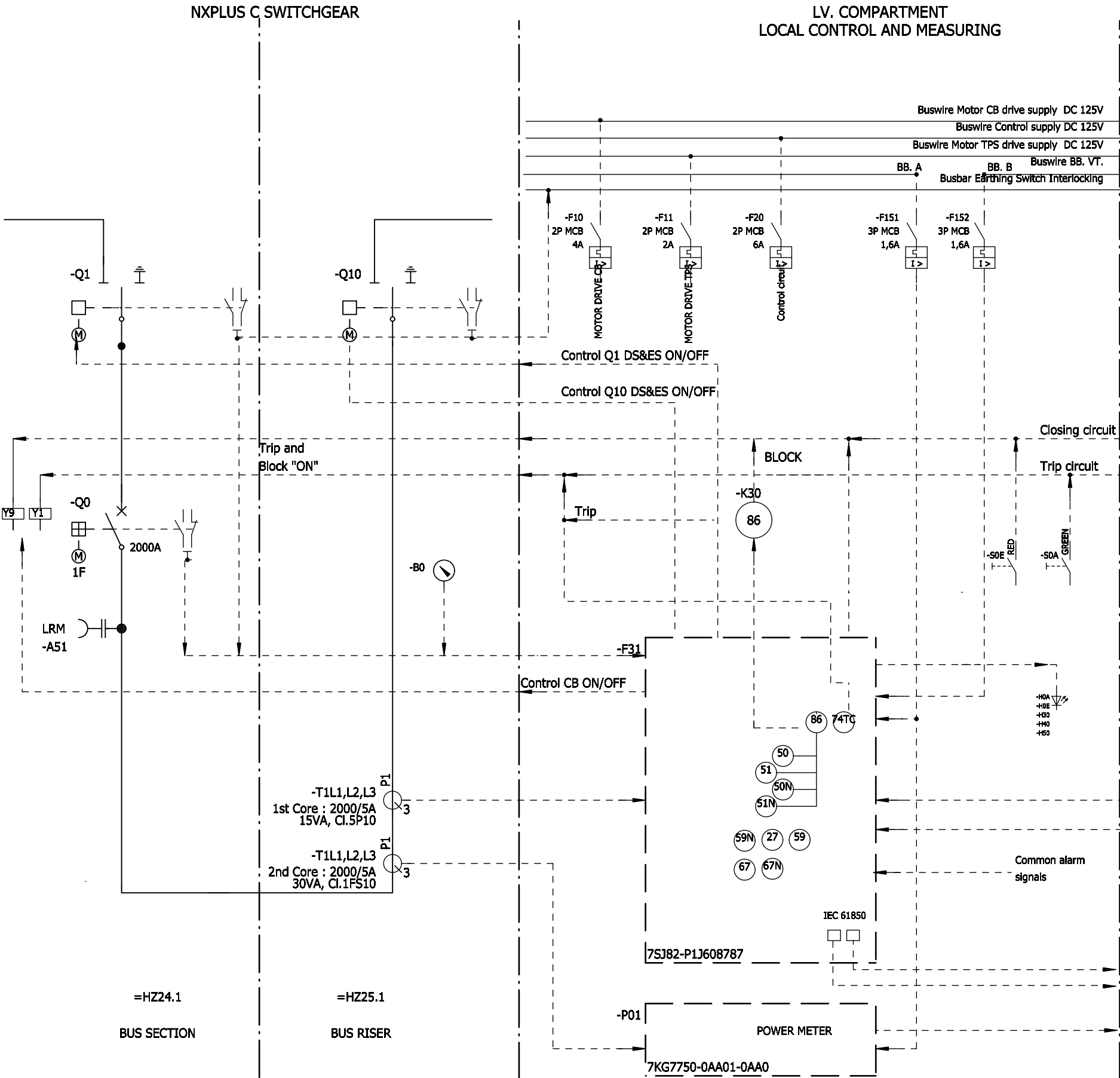
Remark :  
Drawings will be applied for panel

- 1) H10 Bus sectionalizer
- 2) H28 Bus sectionalizer

Legend

- Q0 Motorized Circuit-Breaker
- Q10 Motorized Operated 3 Position Switch
- T1 Current Transformer
- 50 Instantaneous Overcurrent
- 50N Instantaneous Earth-fault Overcurrent
- 51 Time-Overcurrent, phase
- 51N Time-Overcurrent, earth
- 86 Lockout function

-A51 Voltage Indicator LRM



System/rated frequency 3~60 Hz

Operating voltage 33,0 kV

Rated voltage 36,0 kV

Rated short-time withst. curr. 25,0kA (3s)

Rated normal current 2000A

				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS BUS RISER (=MZ02)		=HZ00	F	=H00	
				Drawn	Herrmann								+H00
A	change PCMI I	29.04.21	HE	Appr.	Jacobi								Sheet 2+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		998574-000501	(3) W92210-L1965-S008-A		6 Sh.

ELCAD-Version: 7.7.1.SP2  
Last used: 29.04.21  
FBSTP2

Archive: =H00 / F / F / 3

Translate file A: A\_COC\_DE  
Translate file B: leer1  
Translate file C: C\_FB\_EN.etr, 04-11-24  
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro  
Symbol library 1: PTD60617  
Symbol library 2: PTD\_M2\_CoC\_E  
Symbol library 3:  
Symbol library 4:

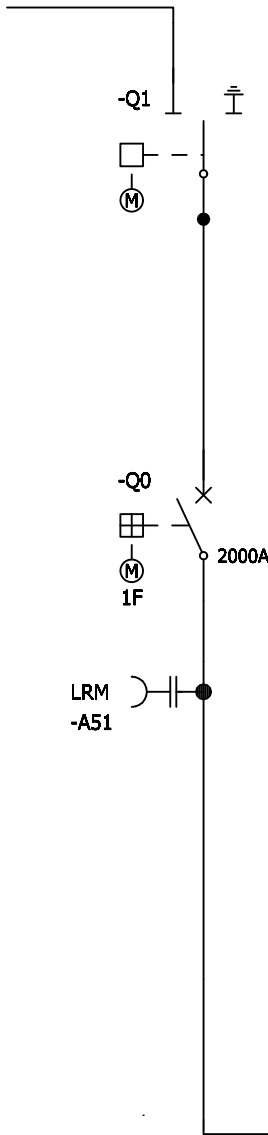
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Remark :  
Drawings will be applied for panel

- 1) H11    Bus Riser
- 2) H29    Bus Riser

Legend

- Q1    Motorized Operated 3 Position Switch
- T1    Current Transformer



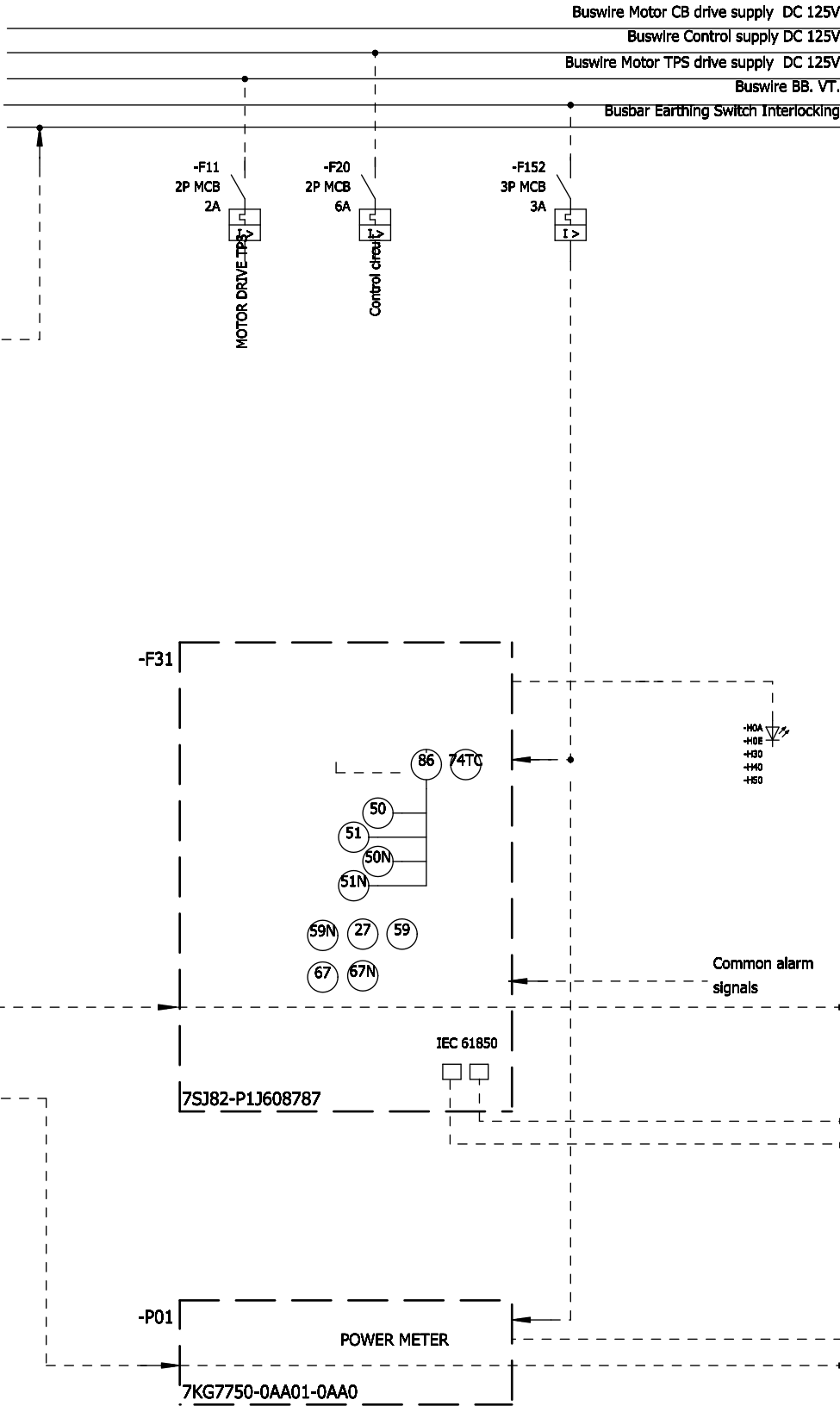
-T1L1,L2,L3  
1st Core : 2000/5A  
15VA, Cl.5P10

-T1L1,L2,L3  
2nd Core : 2000/5A  
30VA, Cl.1FS10

=HZ24.1  
BUS SECTION

=HZ25.1  
BUS RISER

LV. COMPARTMENT  
LOCAL CONTROL AND MEASURING



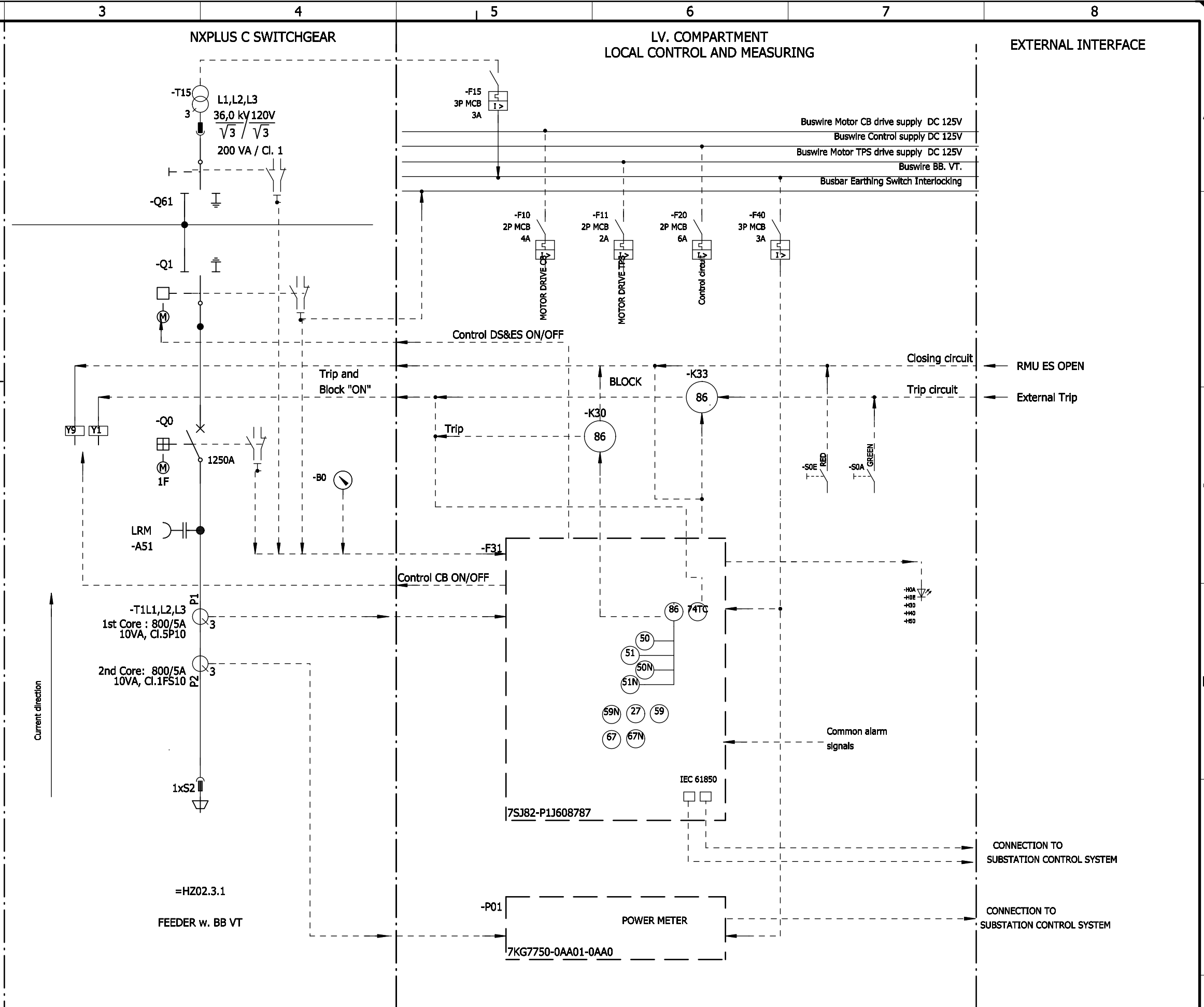
EXTERNAL INTERFACE

System/rated frequency    Operating voltage    Rated voltage    Rated short-time withst. curr.    Rated normal current

3~60 Hz    33,0 kV    36,0 kV    25,0kA (3s)    2000A

				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS BUS RISER (=MZ02)		=HZ00	F	=H00	
				Drawn	Herrmann							+H00	F3
A	change PCMI I	29.04.21	HE	Appr.	Jacobi								Sheet 3+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		998574-000501	(3) W92210-L1965-S008-A		6 Sh.

System/rated frequency	Operating voltage	Rated voltage	Rated short-time withst. curr.	Rated normal current
3~60 Hz	33,0 kV	36,0 kV	25,0kA (3s)	2000A



			Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION		Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS OUTGOING FEEDER (=MZ03_1) Circuit diagram		=HZ00	F	=H00	F5
change PCMI I	29.04.21	HE	Appr.	Herrmann							+H00		
Modification	Date	Name	Norm	Jacobi	Orig./Prep.for/Prep.by				998574-000501	(3) W92210-L1965-S008-A		Sheet 5+ 6 Sh.	
1			2		3		4	5	6		7		8



ELCAD-Version 7.7.1 SP2  
Last used: 29.04.21  
FBSTP2  
Archive: =H00 / H / H / 1

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Translate file B: leer1  
Translate file C: C\_FB\_EN.etr, 04-11-24  
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro  
Symbol library 1: PTD60617  
Symbol library 2: PTD\_M2\_CoC\_E  
Symbol library 3:  
Symbol library 4:

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LOAD DATA AND MINIMUM DISTANCES

- 1.) PERMANENT LOADS

Fv VERTICAL SINGLE LOAD

7.8 kN
- 2.) NON-PERMANENT LOADS

pa LIVELOAD

9.9 kN/m²
- 3.) MINIMUM DISTANCES

OPERATING AISLE

≥ 800 mm \*)

MINIMUM WALL CLEARANCE LEFT OR RIGHT

≥ 500 mm

WALL CLEARANCE LEFT OR RIGHT

≥ 100 mm

WALL CLEARANCE REAR

FREE-STANDING ARRANGEMENT

≥ 800 mm

WALL-STANDING ARRANGEMENT

≥ 100 mm

HEIGH OF CEILING

2550 mm

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System/rated frequency

3~60 Hz

Operating voltage

33,0 kV

Rated voltage

36,0 kV

Rated short-time withst. curr.

25,0kA (3s)

Rated normal current

2000A

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS PLANT VIEW Circuit diagram			=HZ00	H	=H00		
				Drawn	Herrmann	Siemens Limited (Taipei)							+H00		H1
A	change PCMI I	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION									Sheet 1+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by			998574-000501	(3) W92210-L1965-S008-A			4 Sh.		

ELCAD-Version 7.7.1 SP2  
Last used: 29.04.21  
FBSTP2

Archive: =H00 / H / H / 2

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Translate file B: leer1  
Translate file C: C\_FB\_EN.etr, 04-11-24  
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro  
Symbol library 1: PTD60617  
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Symbol library 3:  
Symbol library 4:

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25,0kA (3s)

Rated normal current

2000A

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS PLANT VIEW Circuit diagram			=HZ00	H	=H00	
A	change PCMI I	29.04.21	HE	Drawn	Herrmann	Siemens Limited (Taipei)							+H00	H2
Revision	Modification	Date	Name	Appr.	Jacobi	33KV MAIN SUBSTATION			998574-000501		(3) W92210-L1965-S008-A			Sheet 2+
				Norm		Orig./Prep.for/Prep.by								4 Sh.

ELCAD-Version 7.7.1 SP2  
Last used: 29.04.21  
FBSTP2  
Archive: =H00 / H / H / 3

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Translate file B: leer1  
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Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro  
Symbol library 1: PTD60617  
Symbol library 2: PTD\_M2\_CoC\_E  
Symbol library 3:  
Symbol library 4:

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25,0kA (3s)

Rated normal current

2000A

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS PLANT VIEW Circuit diagram			=HZ00	H	=H00	
A	change PCMI I	29.04.21	HE	Drawn	Herrmann	Siemens Limited (Taipei)							+H00	H3
Revision	Modification	Date	Name	Norm		33KV MAIN SUBSTATION			998574-000501		(3) W92210-L1965-S008-A			Sheet 3+
						Orig./Prep.for/Prep.by								4 Sh.

PLANT VIEW

=H20

+H20

=HZ02.2.1

=H21

+H21

=HZ02.1.1

=H22

+H22

=HZ02.1.1

=H23

+H23

=HZ02.1.1

=H24

+H24

=HZ02.3.1

=H25

+H25

=HZ02.1.1

=H26

+H26

=HZ02.1.1

=H27

+H27

=HZ01.1

=H28

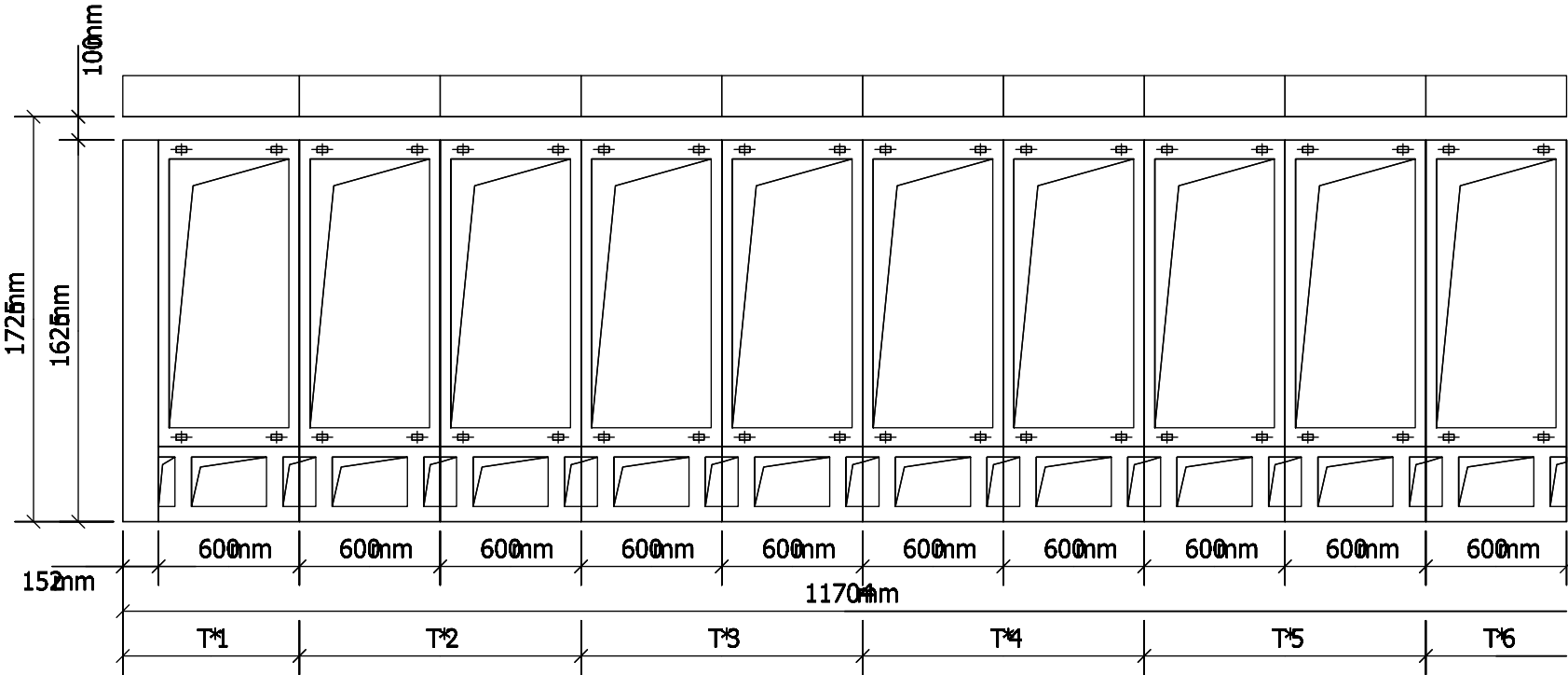
+H28

=HZ24.1

=H29

+H29

=HZ25.1





ELCAD-Version 7.7.1 SP2  
Last used: 29.04.21  
FBSTP2

Archive: =H00 / H / H / 4

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Translate file B: leer1  
Translate file C: C\_FB\_EN.etr, 04-11-24  
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro  
Symbol library 1: PTD60617  
Symbol library 2: PTD\_M2\_CoC\_E  
Symbol library 3:  
Symbol library 4:

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Rated voltage

36,0 kV

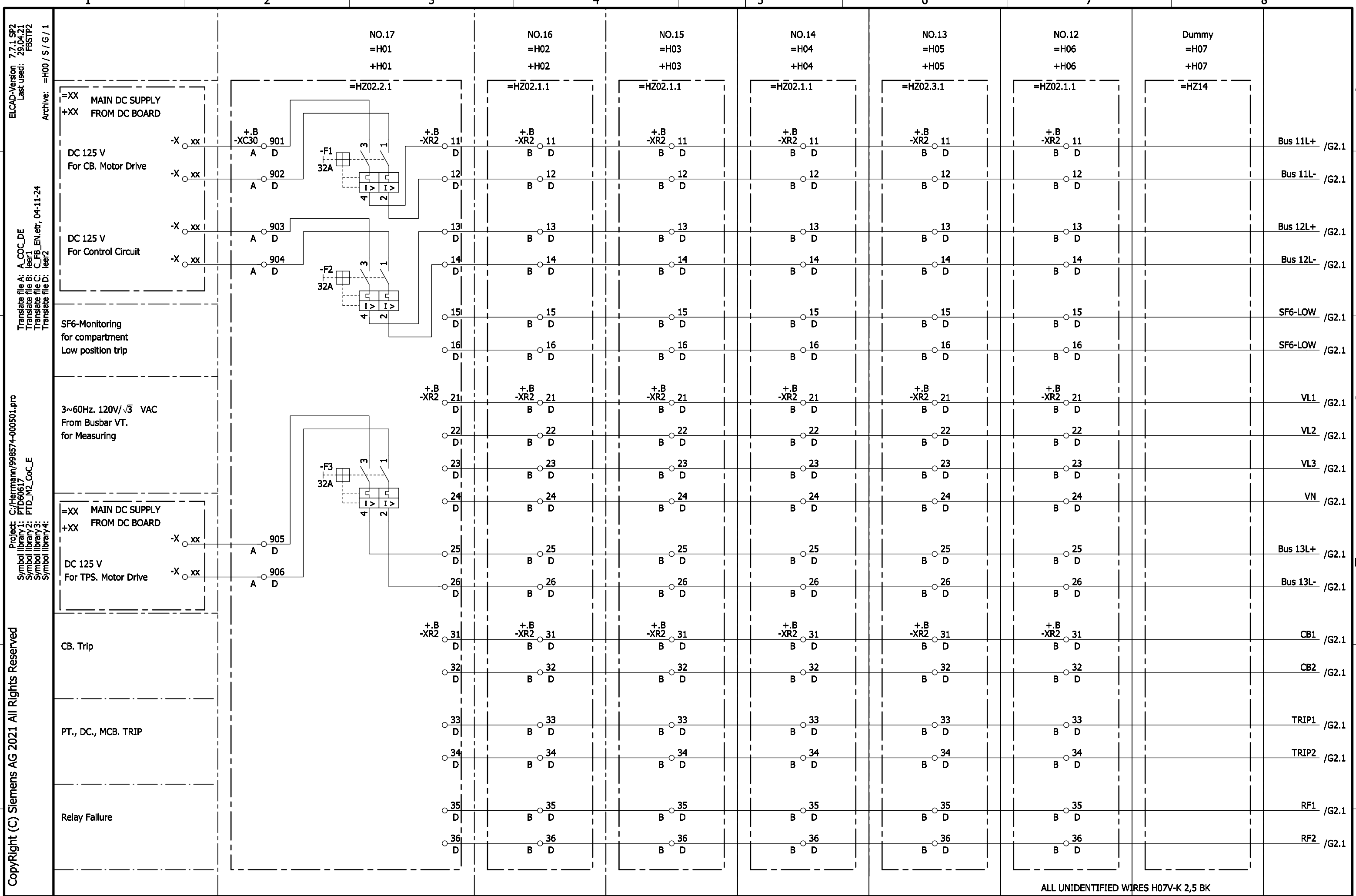
Rated short-time withst. curr.

25,0kA (3s)

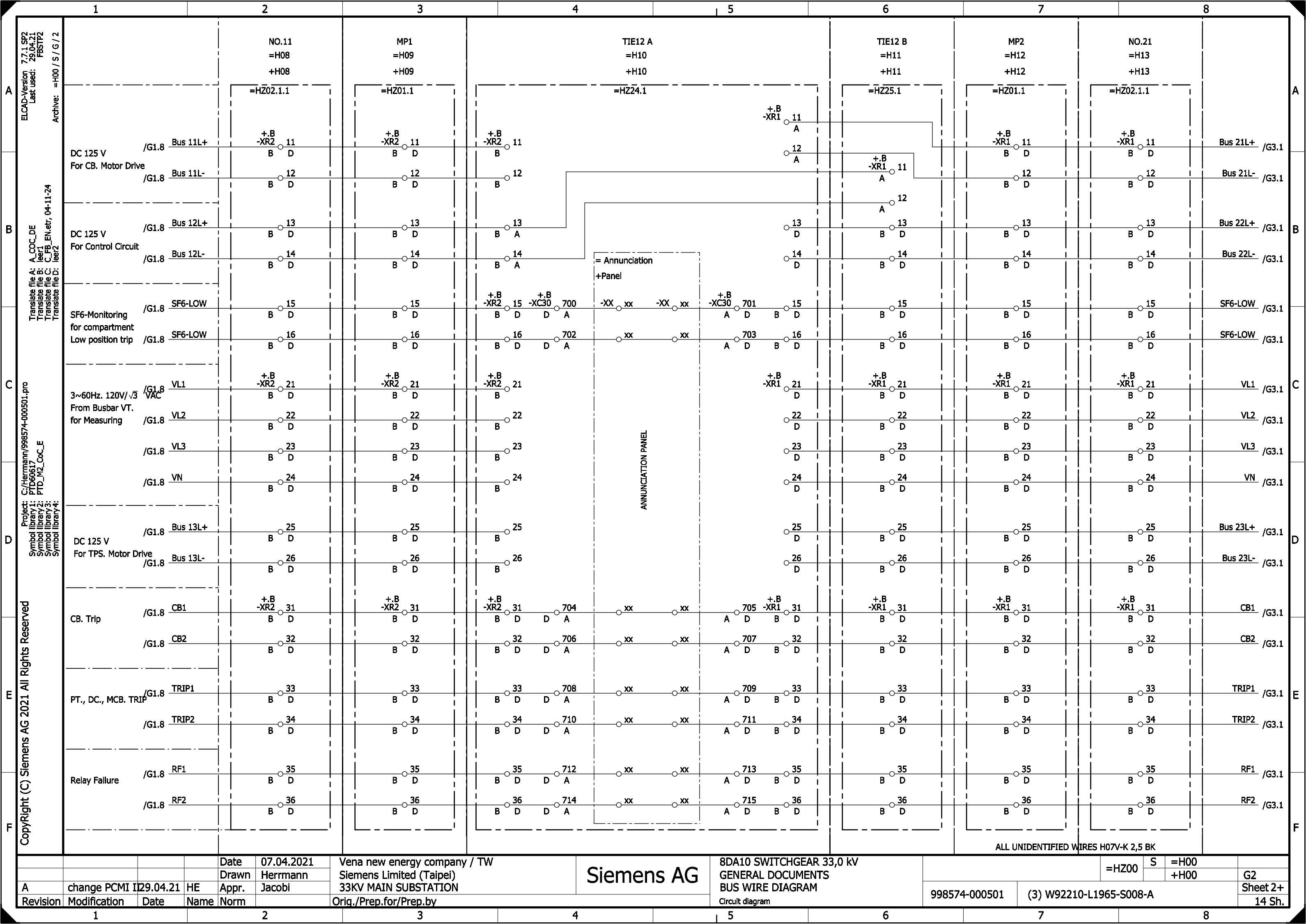
Rated normal current

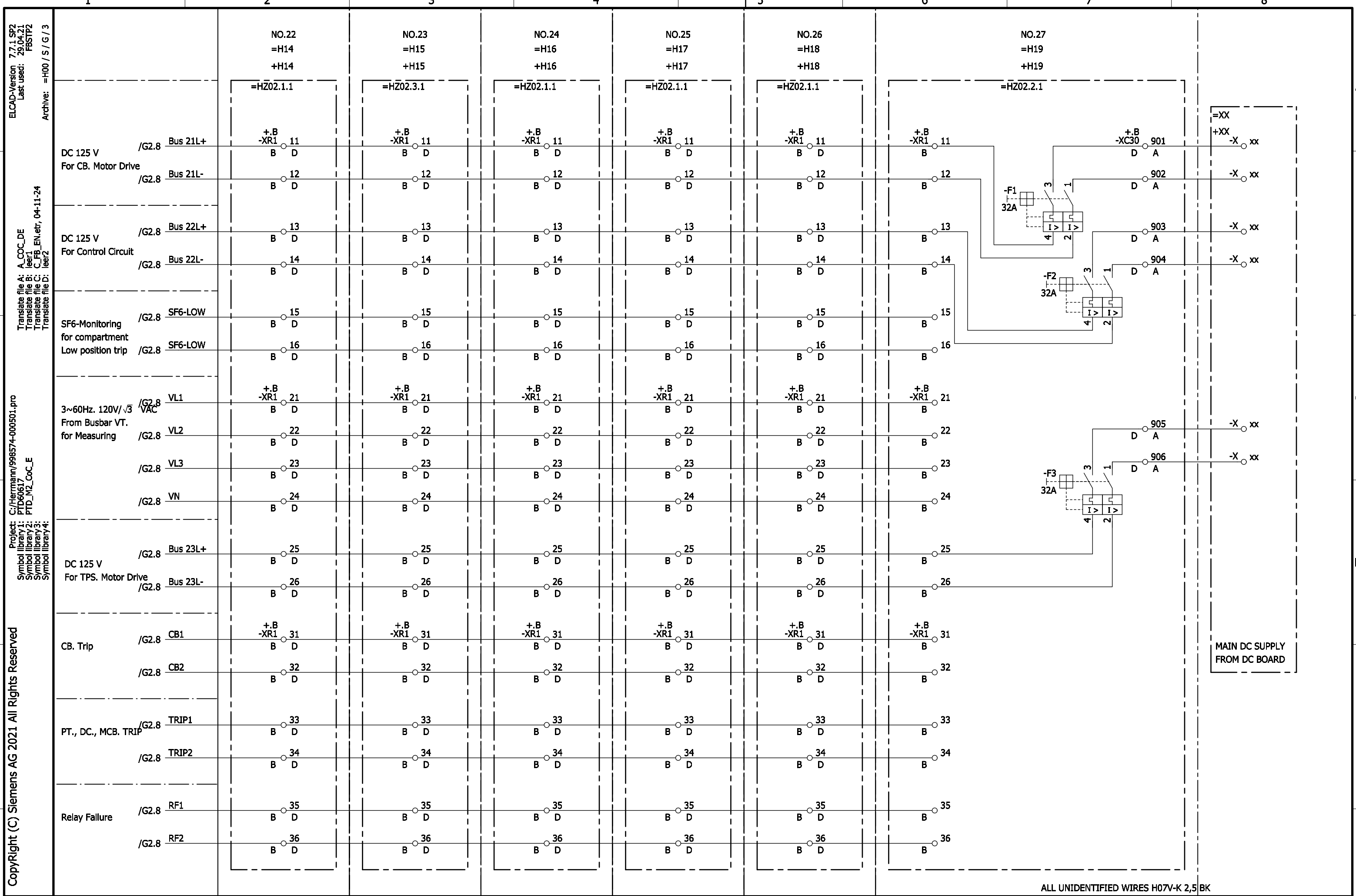
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				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS PLANT VIEW Circuit diagram			=HZ00	H	=H00	
A	change PCMI I	29.04.21	HE	Drawn	Herrmann	Siemens Limited (Taipei)							+H00	H4
Revision	Modification	Date	Name	Appr.	Jacobi	33KV MAIN SUBSTATION			998574-000501		(3) W92210-L1965-S008-A			Sheet 4-
				Norm		Orig./Prep.for/Prep.by								4 Sh.

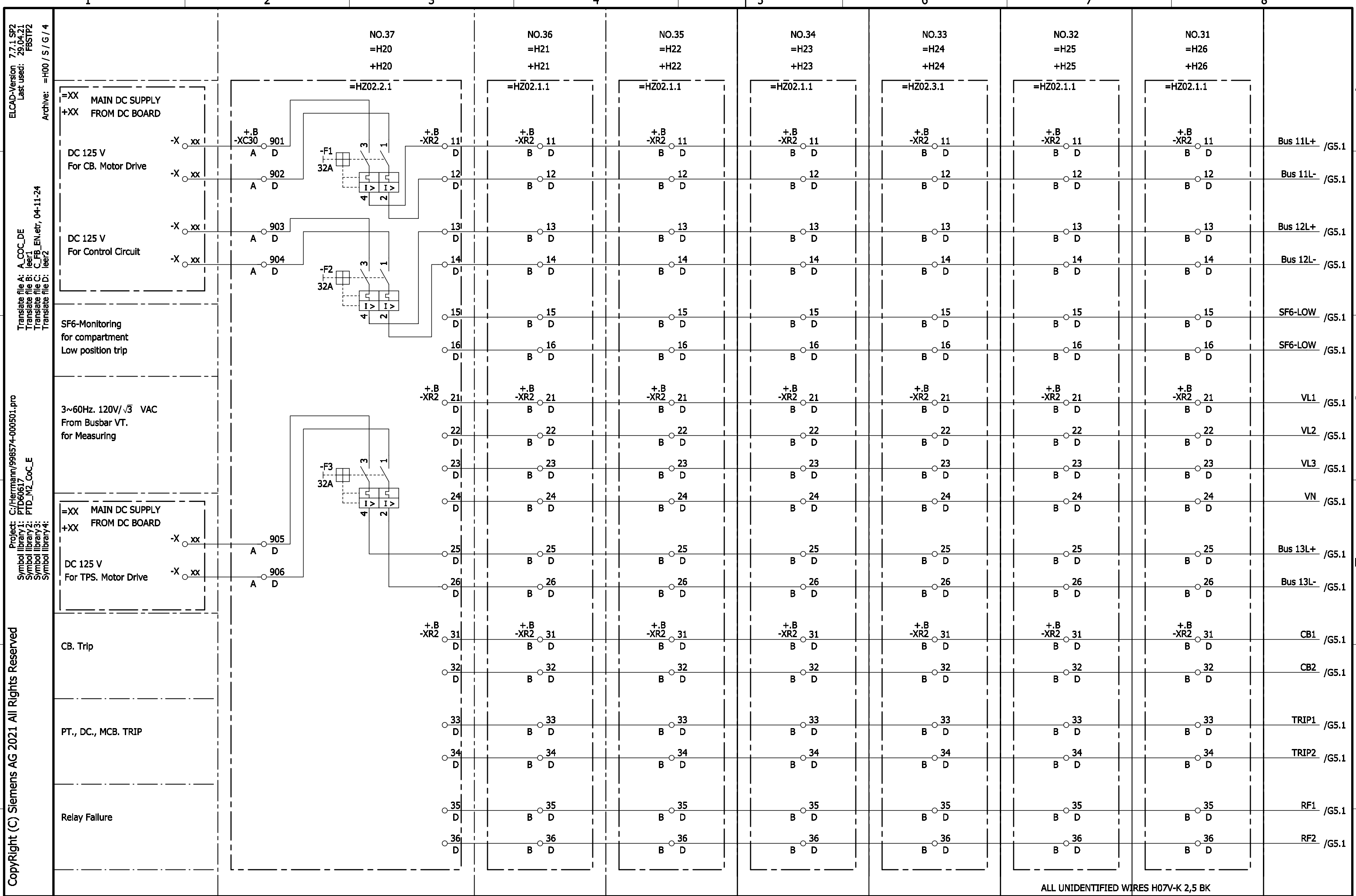


Date				07.04.2021				Vena new energy company / TW				Siemens AG				8DA10 SWITCHGEAR 33,0 kV				=H00				S				=H00				G1			
Drawn				Herrmann				Siemens Limited (Taipei)								GENERAL DOCUMENTS				=HZ00								+H00				Sheet 1+			
Appr.				Jacobi				33KV MAIN SUBSTATION								BUS WIRE DIAGRAM								998574-000501				(3) W92210-L1965-S008-A				14 Sh.			
Revision				Modification				Date				Name				Orig./Prep.for/Prep.by																			



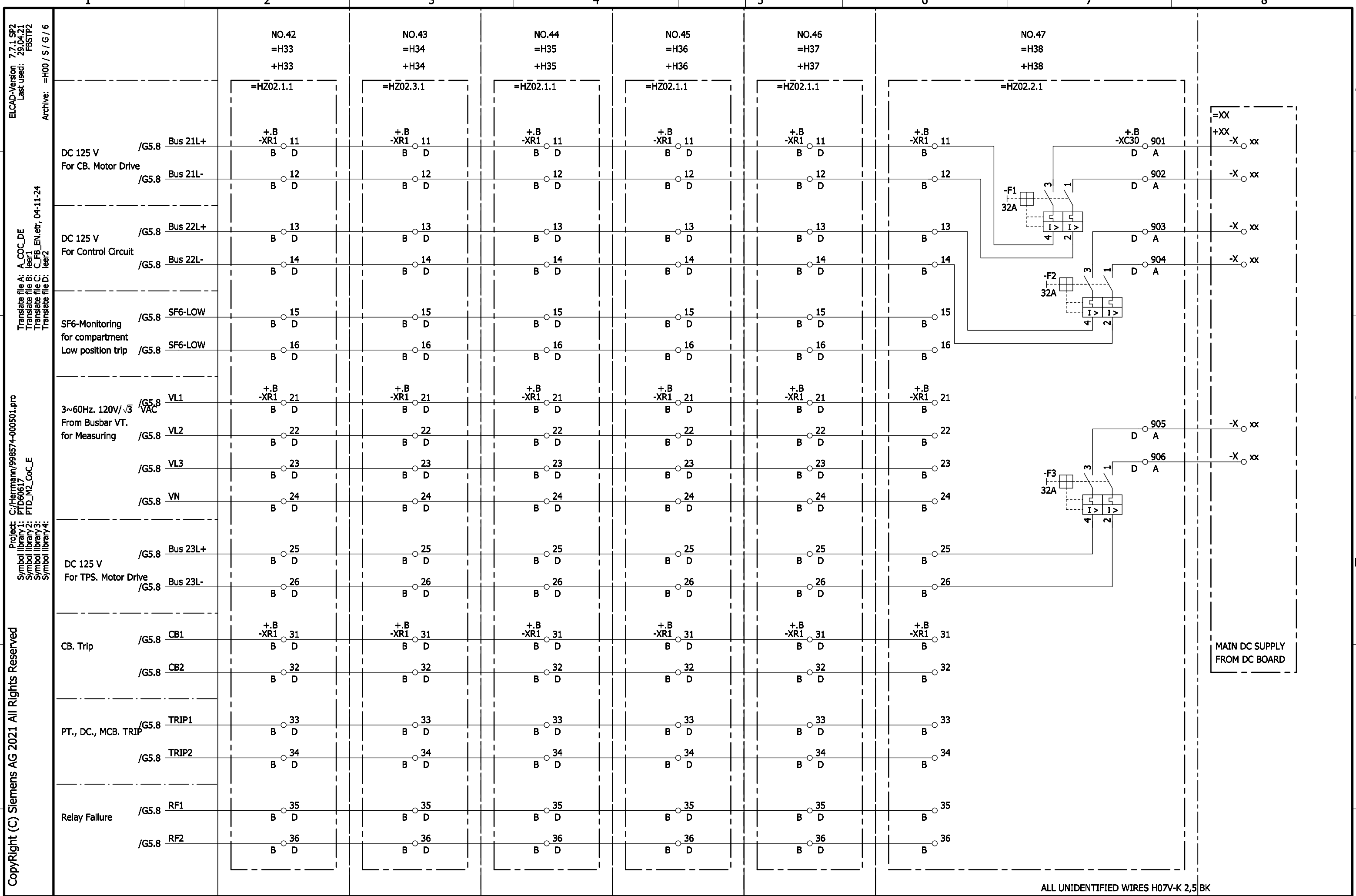


Date				07.04.2021				Vena new energy company / TW				Siemens AG				8DA10 SWITCHGEAR 33,0 kV				=H200				S				=H00							
Drawn				Herrmann				Siemens Limited (Taipei)								GENERAL DOCUMENTS												+H00				G3			
A				change PCMI I				29.04.21				HE				998574-000501				(3) W92210-L1965-S008-A								Sheet 3+							
Revision				Modification				Date				Name																14 Sh.							
1				2				3				4				5				6				7				8							



Date				07.04.2021				Vena new energy company / TW				Siemens AG				8DA10 SWITCHGEAR 33,0 kV				=H200				S				=H00							
Drawn				Herrmann				Siemens Limited (Taipei)								GENERAL DOCUMENTS												+H00				G4			
A				change PCMI I				29.04.21				HE				Appr.				Jacobi												Sheet 4+			
Revision				Modification				Date				Name				Norm				Orig./Prep.for/Prep.by												14 Sh.			



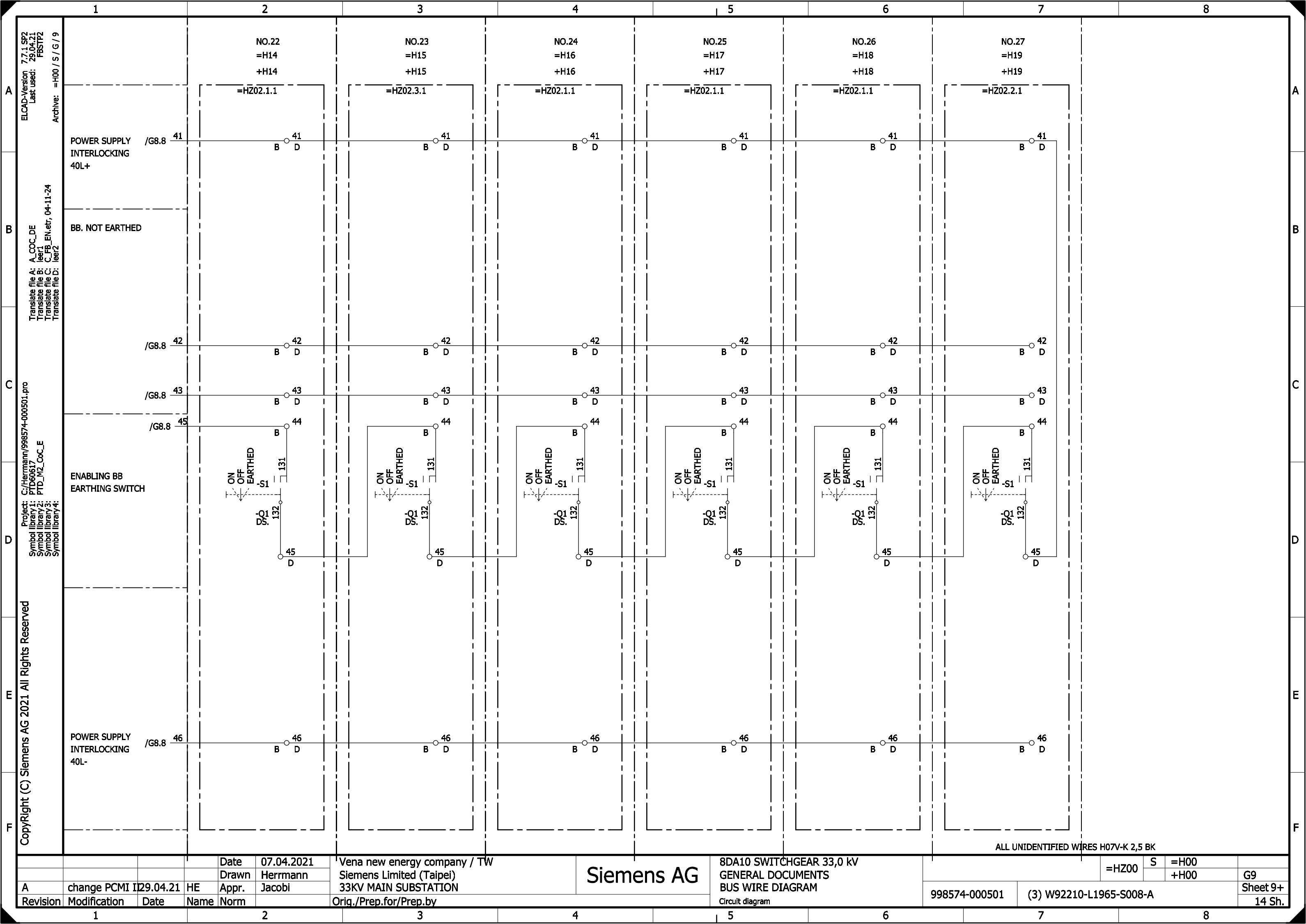


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Drawn				Herrmann				Siemens Limited (Taipei)								GENERAL DOCUMENTS												+H00				G6			
A				change PCMI I				29.04.21				HE				Appr.				Jacobi												Sheet 6+			
Revision				Modification				Date				Name				Norm				Orig./Prep.for/Prep.by												14 Sh.			





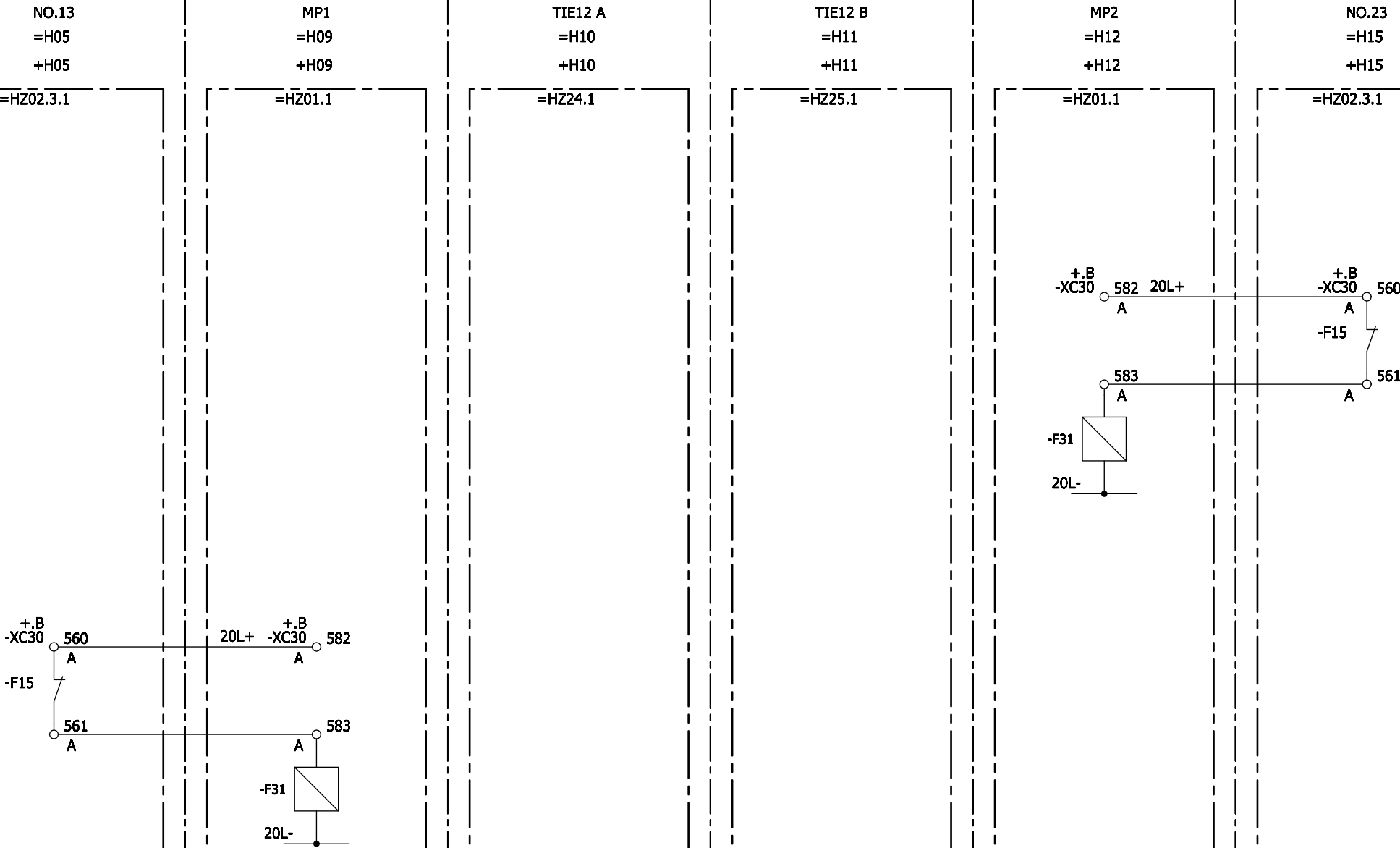












				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV GENERAL DOCUMENTS BUS WIRE DIAGRAM		=HZ00	S	=H00 +H00	
				Drawn	Herrmann	Siemens Limited (Taipei)							G13
A	change PCMI I	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION							Sheet 13+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S008-A			14 Sh.

