Smart Infrastructure - Distribution Systems

Circuit diagram

for

Purchaser Vena new energy company / TW

User Siemens Limited (Taipei)

Plant 33KV MAIN SUBSTATION

Plant section 8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
OUTGOING FEEDER

Typical =HZ01.1

Project reference number

Date of issue 29.04.21

Customer document number

A	change PCMI II	29.04.21	HE
Revision	Modification	Date	Name

SIEMENS AG

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Project: 998574-000501

Documentation identifier A / =H12 / / 1

Manufacturer document number (3) W92210-L1965-U121-A

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBINH2
Archive: =H12 / A / A / 1

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:

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
A	=H09 +H09	/1	(3) W92210-L1965-U091	1-	1	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder Cover sheet	EM MS O GIS SWF PR OP SEN FFM
A	=H09 +H09	A1	(3) W92210-L1965-L092	1+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H09 +H09	A2	(3) W92210-L1965-L092	2+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H09 +H09	A3	(3) W92210-L1965-L092	3+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H09 +H09	A4	(3) W92210-L1965-L092	4+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H09 +H09	A5	(3) W92210-L1965-L092	5-	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder List of documents	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	B1	(3) W92210-L1965-S094	1-	1	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder FEEDER OVERVIEW Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	G1	(3) W92210-L1965-S095	1-	1	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder POWER SUPPLY Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M1	(3) W92210-L1965-S095	1+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M2	(3) W92210-L1965-S095	2+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M3	(3) W92210-L1965-S095	3+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M4	(3) W92210-L1965-S095	4+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M5	(3) W92210-L1965-S095	5+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M6	(3) W92210-L1965-S095	6+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM

Revision	Modification	Date	Name
A	change PCMI II	29.04.21	HE

Date 07.04.2021
Drawn Herrmann
Appr. Jacobi
Norm

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION
Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
List of documents

=HZ01.1 A =H12
+H12 A1
998574-000501 (3) W92210-L1965-L122-A
Sheet 1+
5 Sh.

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
S	=H09 +H09	M7	(3) W92210-L1965-S095	7+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M8	(3) W92210-L1965-S095	8+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M9	(3) W92210-L1965-S095	9+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M10	(3) W92210-L1965-S095	10+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M11	(3) W92210-L1965-S095	11+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M12	(3) W92210-L1965-S095	12+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M13	(3) W92210-L1965-S095	13+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M14	(3) W92210-L1965-S095	14+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder INDICATION / STATUS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M15	(3) W92210-L1965-S095	15+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M16	(3) W92210-L1965-S095	16+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M17	(3) W92210-L1965-S095	17+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	M18	(3) W92210-L1965-S095	18-	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	S1	(3) W92210-L1965-S095	1+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	S2	(3) W92210-L1965-S095	2+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM

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A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder

List of documents

=HZ01.1	A	=H12		
		+H12		A2
998574-000501	(3) W92210-L1965-L122-A			Sheet 2+
				5 Sh.

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
S	=H09 +H09	S3	(3) W92210-L1965-S095	3+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	S4	(3) W92210-L1965-S095	4+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	S5	(3) W92210-L1965-S095	5-	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CAPDIS-S1+ Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z1	(3) W92210-L1965-S095	1+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder CIRCUIT BREAKER Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z2	(3) W92210-L1965-S095	2+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder THREE POSITION SWITCH Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z3	(3) W92210-L1965-S095	3+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder THREE POSITION SWITCH Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z4	(3) W92210-L1965-S095	4+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder VOIS + Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z5	(3) W92210-L1965-S095	5+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder PROTECTION DEVICE Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z6	(3) W92210-L1965-S095	6+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z7	(3) W92210-L1965-S095	7+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z8	(3) W92210-L1965-S095	8+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z9	(3) W92210-L1965-S095	9+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z10	(3) W92210-L1965-S095	10+	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H09 +H09	Z11	(3) W92210-L1965-S095	11-	11	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBINH2
Archive: =H12 / A / A / 3

Translate file A: A_COC_DE
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Translate file D: leer2

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A	change PCMI II	29.04.21	HE

Date 07.04.2021
Drawn Herrmann
Appr. Jacobi
Norm

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33KV MAIN SUBSTATION
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Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
List of documents

=HZ01.1 A =H12
+H12 A3
998574-000501 (3) W92210-L1965-L122-A Sheet 3+ 5 Sh.

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
V	=H09 +.B	/1	(3) W92210-L1965-S098	1+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XR2 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/2	(3) W92210-L1965-S098	2+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XT1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/3	(3) W92210-L1965-S098	3+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/4	(3) W92210-L1965-S098	4+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/5	(3) W92210-L1965-S098	5+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/6	(3) W92210-L1965-S098	6+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/7	(3) W92210-L1965-S098	7+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/8	(3) W92210-L1965-S098	8+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XQ0 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/9	(3) W92210-L1965-S098	9+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XQ0 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/10	(3) W92210-L1965-S098	10+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XQ1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/11	(3) W92210-L1965-S098	11+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XQ1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/12	(3) W92210-L1965-S098	12+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XQ61 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/13	(3) W92210-L1965-S098	13+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XQ61 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/14	(3) W92210-L1965-S098	14+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XPE Connection table	EM MS O GIS SWF PR OP SEN FFM

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBINH2
Archive: =H12 / A / A / 4

Translate file A: A_COC_DE
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Symbol library 3:
Symbol library 4:

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE			
				Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder

List of documents

=HZ01.1	A	=H12		
		+H12		A4
998574-000501	(3) W92210-L1965-L122-A			Sheet 4+ 5 Sh.

Designation				Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
V	=H09 +.B	/15		(3) W92210-L1965-S098	15+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XT15 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/16		(3) W92210-L1965-S098	16+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XT5 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/17		(3) W92210-L1965-S098	17+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XT5A Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H09 +.B	/18		(3) W92210-L1965-S098	18-	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder +.B-XT Connection table	EM MS O GIS SWF PR OP SEN FFM

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBINH2
Archive: =H12 / A / A / 5

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:

				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder
				Drawn	Herrmann			
A	change PCMI II	29.04.21	HE	Appr.	Jacobi			
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		List of documents

=HZ01.1	A	=H12			
		+H12	A5		
998574-000501	(3) W92210-L1965-L122-A		Sheet 5- 5 Sh.		

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / B / 1
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:

Remark :
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

NXPLUS C SWITCHGEAR

LV. COMPARTMENT
LOCAL CONTROL AND MEASURING

EXTERNAL INTERFACE

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

Buswire Motor CB drive supply DC 125V
Buswire Control supply DC 125V
Buswire Motor TPS drive supply DC 125V
Buswire BB. VT.
Busbar Earthing Switch Interlocking

-F10 2P MCB 4A — MOTOR DRIVE CB
-F11 2P MCB 2A — MOTOR DRIVE TPS
-F20 2P MCB 6A — Control circuit
-F151 3P MCB 1,6A

-Q0 -S1 — CB OFF for 161kV GIS
CB OFF for Control Center

-Q1

Control DS&ES ON/OFF

Closing circuit — RMU ES OPEN

Trip and Block "ON"

BLOCK -K33 86

Trip circuit — External Trip

Y9 Y1

-Q0 2000A 1F

Trip -K30 86

-S0E RED -S0A GREEN

-B0

LRM -A51

-F31

161kV Relay Trip RCP

Control CB ON/OFF

-H0A +H0E +H30 +H40 +H50 +H60

-T1L1,L2,L3 P1 3
1st Core : 2000/5A 15VA, Cl.5P10

-T1L1,L2,L3 P1 3
2nd Core : 2000/5A 30VA, Cl.1FS10

86 74TC

50 51 50N 51N

59N 27 59 67 67N

Current direction

IEC 61850 — Common alarm signals

7SJ82-P1J608787

CONNECTION TO SUBSTATION CONTROL SYSTEM

4xS2 -F5 -T5

L1,L2,L3
Ur=36,0 kV
Uc=29,0 kV
10 kA

L1,L2,L3
36,0 kV 120V
√3 / √3
200 VA / Cl. 1

-P01 POWER METER

CONNECTION TO SUBSTATION CONTROL SYSTEM

7KG7750-0AA01-0AA0

-F51 3P MCB 3A

MP2

Incoming Feeder

-F52 3P MCB 3A

Main XTR RCP

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	=HZ01.1 S =H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	+H12 B1
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		FEEDER OVERVIEW	998574-000501 (3) W92210-L1965-S124-A Sheet 1-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	1 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / G / 1

Translate file A: A_COC_DE
Translate file B: leer1
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Symbol library4:

LV COMPARTMENT

DC POWER SUPPLY VOLTAGE FOR

CB. MOTOR DRIVE		TPS. MOTOR DRIVE			CONTROL CIRCUIT		PROTECTION RELAY		POWER METER		MCU-MH	
L+	L-	L+	L-		L+	L-	L+	L-	L+	L-	L+	L-

See DWG.= K00/G1-G11, Bus wire (Ring Circuit)

Bus B11L+ / DC 125V / Bus B11L- — RR
Bus B12L+ / DC 125V / Bus B12L- — RR
Bus B13L+ / DC 125V / Bus B13L- — RR

RR = Ring Loop

+.B -XR1 11 C — +.B -XR1 12 C — H07V-K 2,5 BK — +.B -F10 /Z9.2 4A (3, 1, 4, 2, I>)

+.B -XR1 25 C — +.B -XR1 26 C — H07V-K 2,5 BK — +.B -F11 /Z9.2 2A (3, 1, 4, 2, I>)

+.B -XR1 13 C — +.B -XR1 14 C — H07V-K 2,5 BK — +.B -F20 /Z9.2 6A (3, 1, 4, 2, I>)

+.B -XC30 301 D … 311 D — 20L+ / 20L- /M1.1

301 C — 321 C — 7SJ82 /Z6.1 (+.T -F31, -2 L1, -2 L2, + -)

303 C — 323 C — 7KG7750 /Z11.5 (+.T -P01, L/+, N/-, + -)

301 A — 321 A — MCU-MH /Z5.2 (+.B -AQ1, -X1.2 9, -X1.2 8)

+.B -XQ0 27 D — 28 D — +.L -Q0 /Z1.1 -X12 9 8 — -M1 M DC — CIRCUIT BREAKER

+.B -AQ1 /Z5.2 — -X1.1 1 2 — MCU — -X1.1 3 4

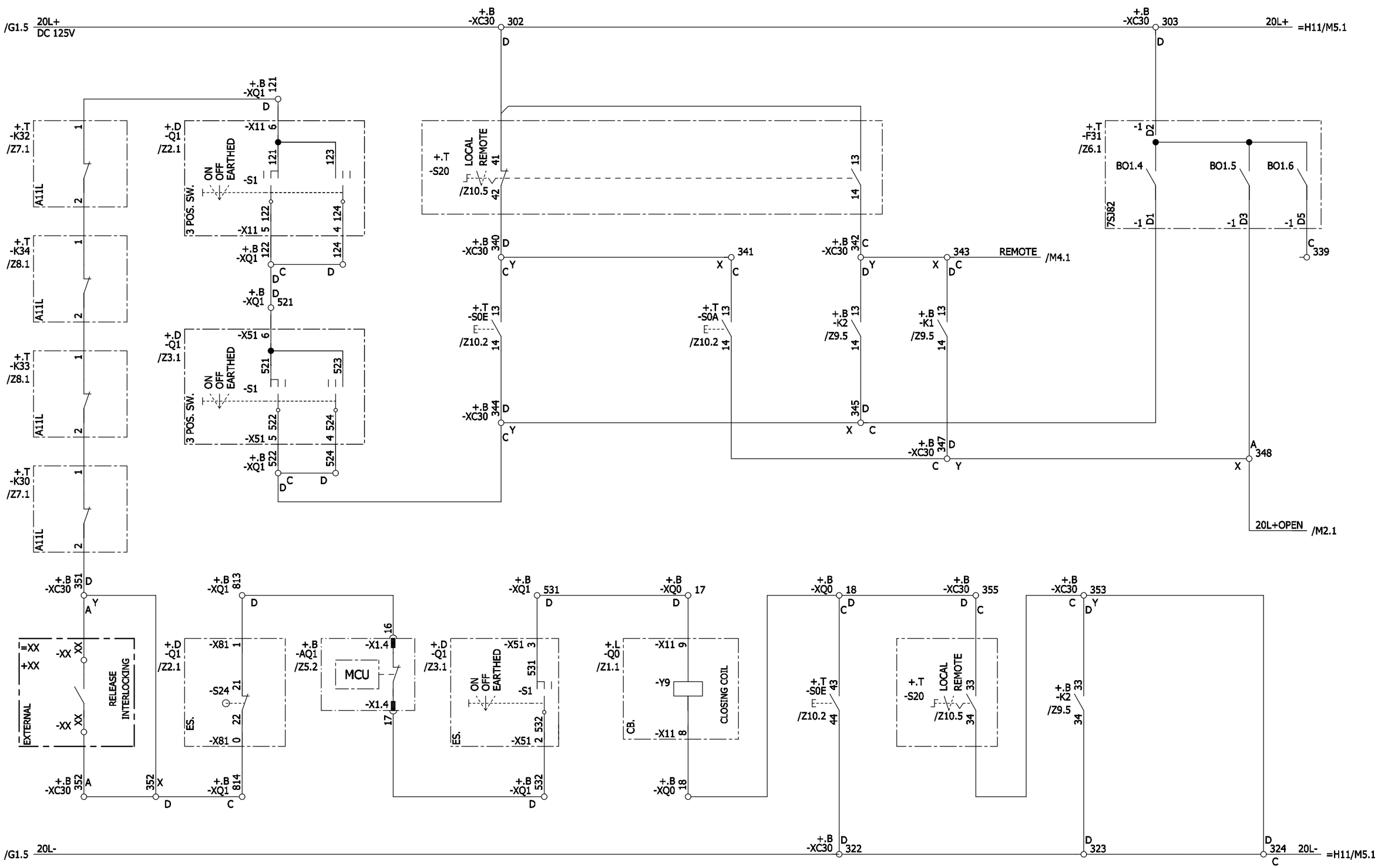
+.B -XQ1 102 D — 101 D — +.D -Q1 /Z2.1 -X1 0 1 — -M1 M DC — TPS

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name								
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 G1
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		POWER SUPPLY	998574-000501	(3) W92210-L1965-S125-A	Sheet 1-
				Norm		Orig./Prep.for/Prep.by		Circuit diagram			1 Sh.

CIRCUIT BREAKER CLOSING CONTROL CIRCUIT

INTERLOCKING	LOCAL CONTROL CIRCUIT		REMOTE CONTROL CIRCUIT			PROTECTION RELAY	
	CLOSE	OPEN	CLOSE	OPEN		OPEN	CLOSE



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 1

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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
CONTROL, CB. CLOSING/TRIPPING
Circuit diagram

=HZ01.1	S	=H12		
		+H12		M1
998574-000501	(3) W92210-L1965-S125-A			Sheet 1+
				17 Sh.

CIRCUIT BREAKER TRIPPING CONTROL CIRCUIT

27/59	LOCK OUT RELAY 51,51N	LOCK OUT RELAY 67/67N,51NR,63	TRIP FROM 33 kV	LOCKOUT RELAY TRANSFER TRIP FROM UPSTREAM		TCS

/M3.1 20L+ DC 125V — +.B -XC30 304 D — 20L+ /M3.8

+.T -F31 /Z6.1 -1 B7 — BO1.1 — 7SJ82 -1 B8

+.T -K30 /Z7.1 9 — A11L 10

+.T -K32 /Z7.1 9 — A11L 10

+.T -K33 /Z8.1 9 — A11L 10

+.T -K34 /Z8.1 9 — A11L 10

+.T -F31 /Z6.1 -1 D4 — BI1 — 7SJ82 -1 D6

/M1.8 20L+OPEN — +.B -XC30 348 C Y D — 349 D X — 349 C Y — 350 C X — 350 D A

+.B -XQ0 20 D C

22 D — 93 C

+.T -Q0 /Z1.1 — -X11 6 — 4 — -X14 1 — 91 — 92 — -X11 5 — -X14 0 — 92 D — TRIPPING COIL -Y1 — CB.

+.B -XQ0 21 D

+.B -XQ0 13 D

+.T -Q0 /Z1.1 — -X10 3 — -S16 13 14 — -X10 2 — CB.

+.B -XQ0 14 D — /M3.1 20L- — A 324 — 20L- /M3.8

+.B -XC30 397 D

+.T -F31 /Z6.1 — -3 N2 — BI1 — -3 N3 — BI2 — 7SJ82 -3 N1

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

LV COMPARTMENT

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 2

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:

Revision	Modification	Date	Name		
A	change PCMI II	29.04.21	HE		
				Date	07.04.2021
				Drawn	Herrmann
				Appr.	Jacobi
				Norm	

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION
Orig./Prep.for/Prep.by

Siemens AG

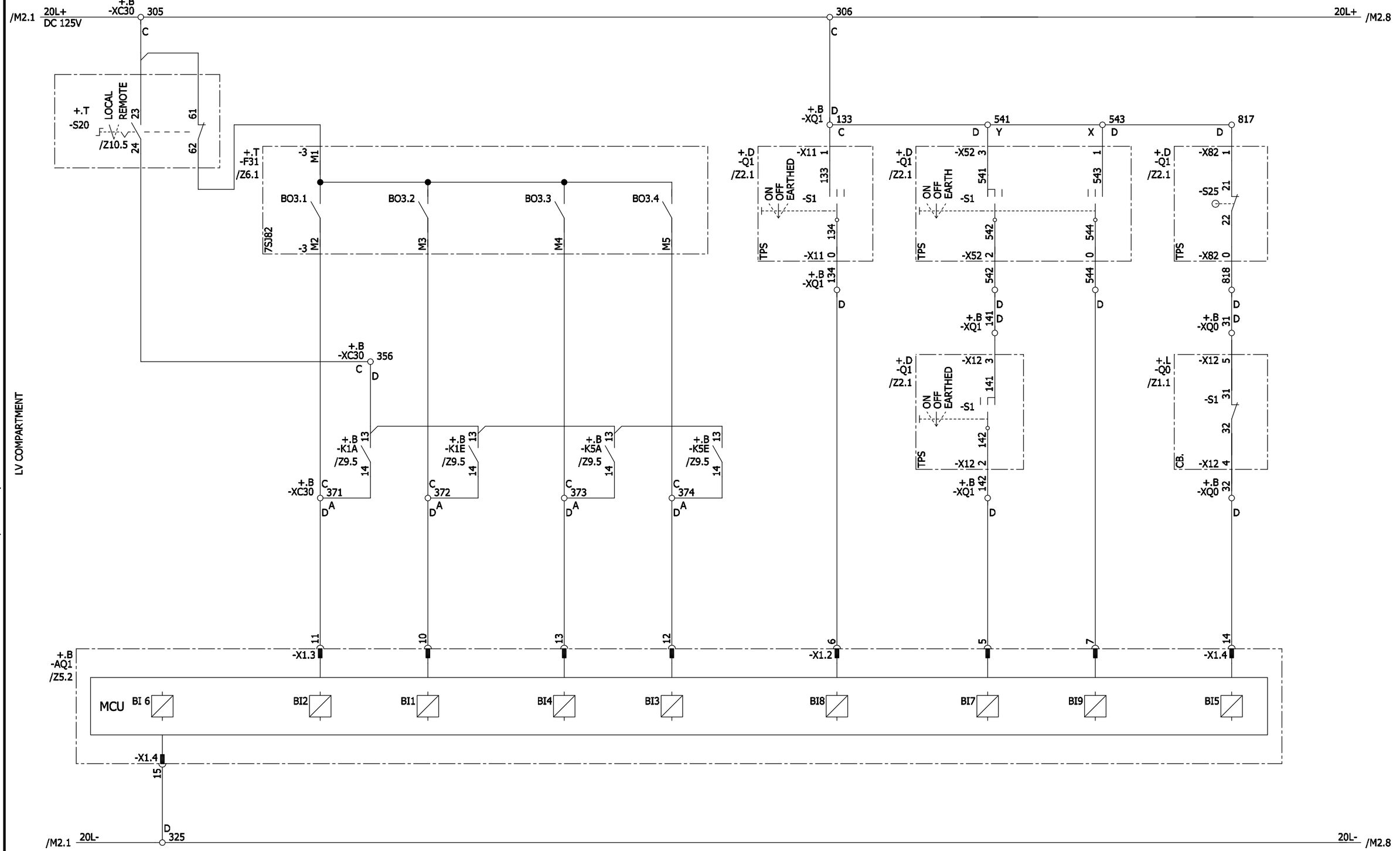
8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
CONTROL, CB. CLOSING/TRIPPING
Circuit diagram

=HZ01.1 S =H12 +H12 M2

998574-000501 (3) W92210-L1965-S125-A Sheet 2+ 17 Sh.

TPS MCU-MH CONTROL CIRCUIT

- ENABLING	DISCONNECTOR	EARTHING SWITCH	DISCONNECTOR	3-POS. SW.	EARTHING SWITCH	RELEASE
REMOTE	OFF ON	OFF ON	CLOSED	OPEN	CLOSED	CB. OFF, LEVER NOT INSERTED



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

LV COMPARTMENT

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 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:

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
CONTROL, CB. CLOSING/TRIPPING
Circuit diagram

=HZ01.1 S =H12
+H12 M3
998574-000501 (3) W92210-L1965-S125-A Sheet 3+
17 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 4

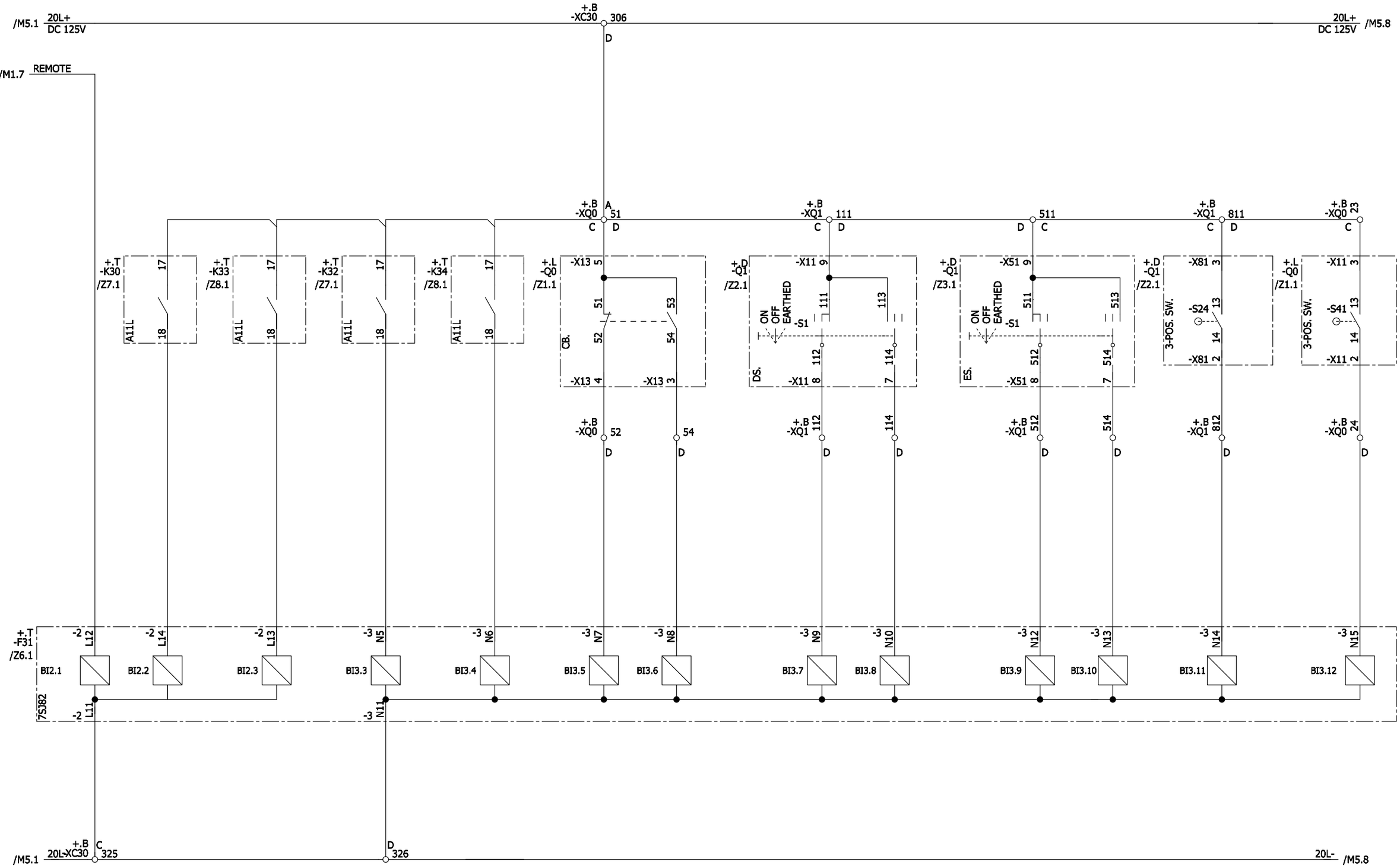
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro
Symbol library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT

PROTECTION CONTROL CIRCUIT

REMOTE	LOCKOUT RELAY OPERATE (86)	STATUS OF CIRCUIT BREAKER: CB. OFF	CB. ON	STATUS OF DISCONNECTOR: DS. OFF	DS. ON	STATUS OF EARTH: ES. OFF	ES. ON	OPERATING KEY: INSERTED	CB motor status: OP.MECH. CHARGE



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION
				Drawn	Herrmann	Siemens Limited (Taipei)
				Date	07.04.2021	Vena new energy company / TW

Siemens AG

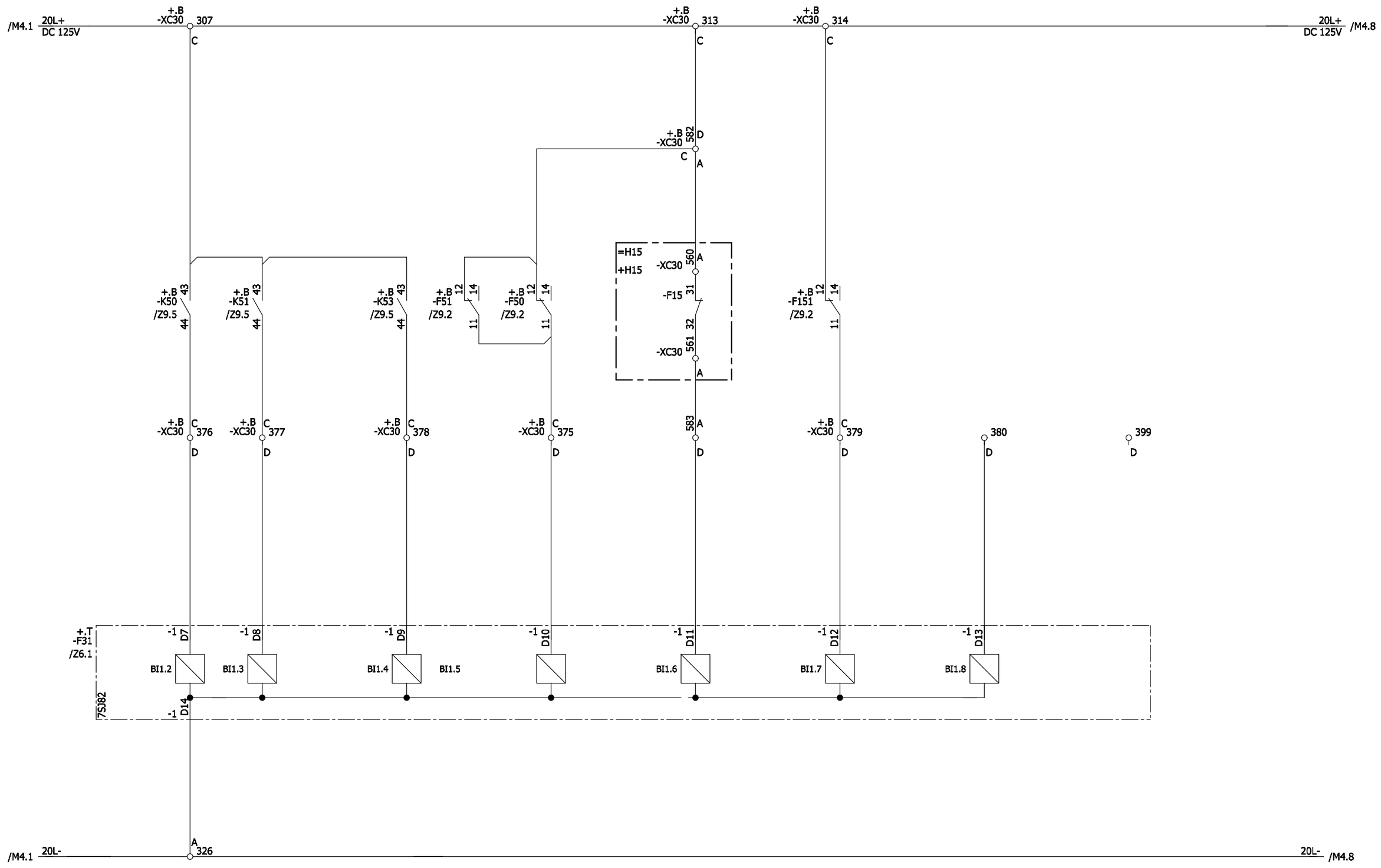
8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
CONTROL CIRCUIT
Circuit diagram

=HZ01.1 S =H12 +H12 M4

998574-000501 (3) W92210-L1965-S125-A Sheet 4+ 17 Sh.

PROTECTION CONTROL CIRCUIT

MCB. TRIP	PT MCB. TRIP	GAS MONITORING CIRCUIT: LOW / HIGH	MCB. OFF/TRIP: PT MCB -T5	AUX RELAY CONTACT FOR BLOCKING 27/59	PT MCB -T15	SPARE



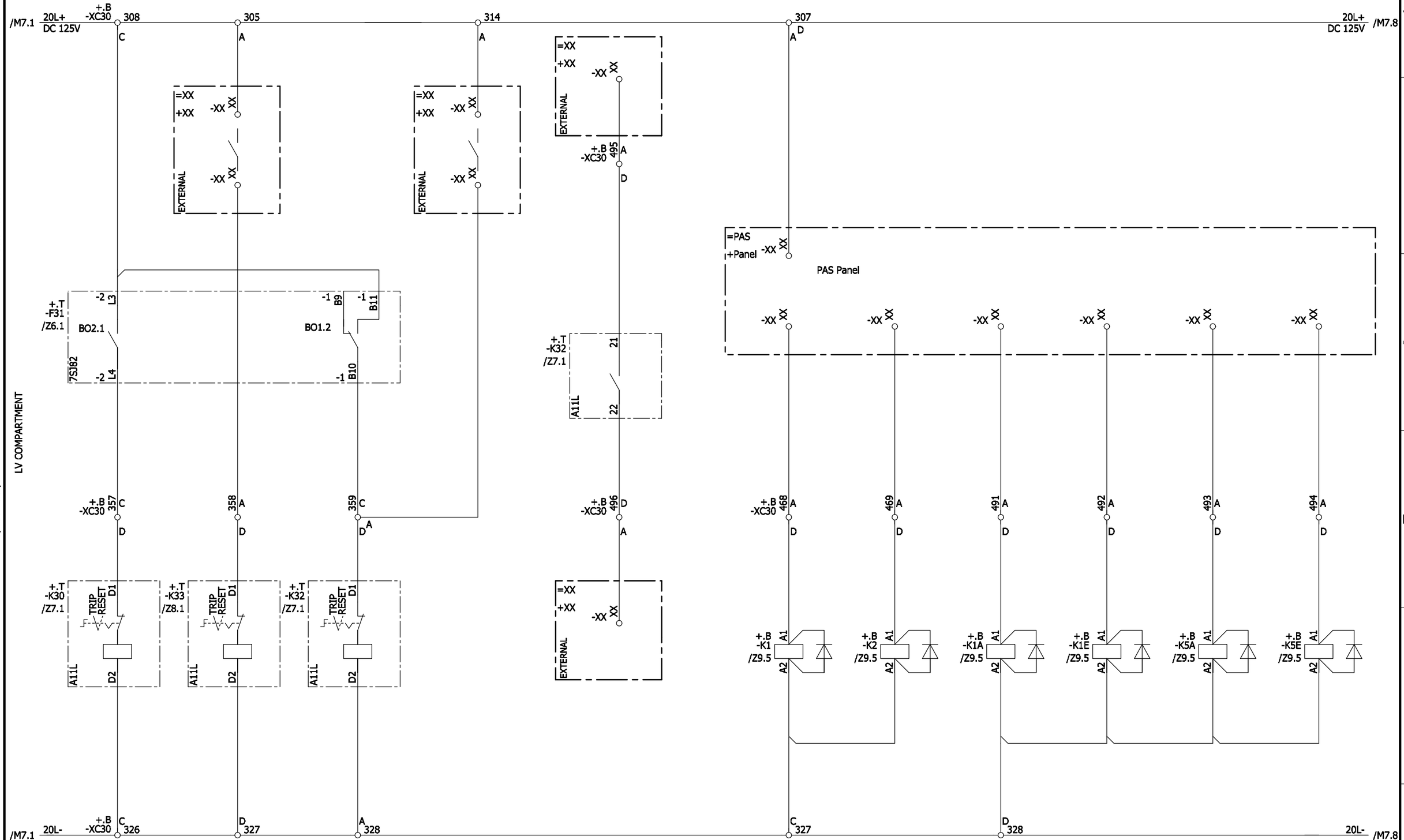
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12	
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12	M5
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL CIRCUIT	998574-000501	(3) W92210-L1965-S125-A		Sheet 5+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram				17 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 5
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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT

CIRCUIT BREAKER TRIP CONTROL					TPS PAS CONTROL				
CIRCUIT BREAKER TRIP BY					PAS CONTROL CIRCUIT		DISCONNECTOR		EARTHING SWITCH	
50/51/50N/51N TRIP	FROM 33 kV TRIP	67;67N TRIP	SIGNAL FROM EXTERNAL (63)	TO 33 kV TRIP	CB. OFF	CB. ON	OFF	ON	OFF	ON



LV COMPARTMENT

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

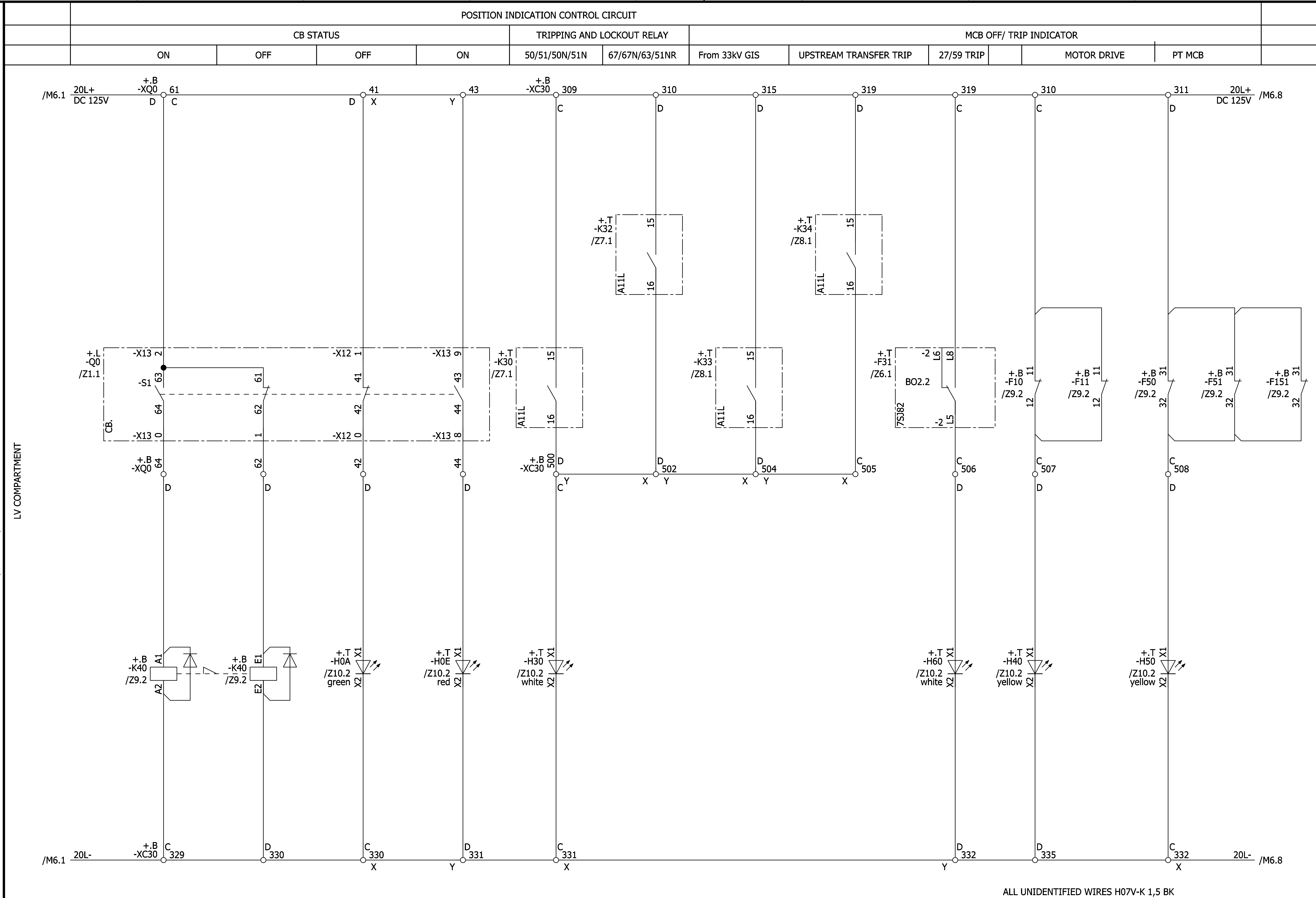
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 6
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2
Project: C:/Herrmann/998574-000501.pro
Symbol library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
CONTROL CIRCUIT
Circuit diagram

=HZ01.1 S =H12 +H12 M6
998574-000501 (3) W92210-L1965-S125-A Sheet 6+ 17 Sh.



ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 7

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:

Revision	Modification	Date	Name						
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1 S =H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	+H12 M7
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL CIRCUIT	998574-000501 (3) W92210-L1965-S125-A Sheet 7+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	17 Sh.

	SIGNAL CONTACT			GAS MONITORING CIRCUIT			
	MCB OFF/TRIP		PROTECTION RELAY	CB. SF6-GAS MONITORING	INTERLOCKING COIL		
	DC MCB TRIP	PT MCB TRIP	LIVE STATUS CONTACT	LOW/HIGH	CB. OPER.MECHANISM BLOCKED		

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 8

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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT

/M9.1 20L+ DC 125V

+.B -XC30 311 X C

+.B -F10 21 /Z9.2 22
+.B -F11 21 /Z9.2 22
+.B -F50 41 /Z9.2 42
+.B -F51 41 /Z9.2 42
+.B -F151 41 /Z9.2 42

+.B -XC30 368 D C
369 D C

312 Y D

+.T -F31 /Z6.1
L7 L9
LC
7SJ82
L10

370 C D

312 X C

+.B -XQ1 890 C D

-X88 3

+.D -B0 /Z4.2
THREE POSITION SWITCH
-B0 4
1 2

-X88 2 1

+.B -XQ1 891 D C
892 C A D

313 Y D X

20L+ =H15/M1.8

+.B -XQ1 533 C D

+.D -Q1 /Z3.1
3 POS. SW.
ON
OFF
EARTHED
-S1
-X51 1
533
534
-X51 0

+.B -XQ1 534 D

+.B -XQ0 11 D

+.B -K50 A1 /Z9.5 A2
+.B -K51 A1 /Z9.5 A2
+.B -K52 A1 /Z9.5 A2
+.B -K53 A1 /Z9.5 A2

+.L -Q0 /Z1.1
-X09 1
-S1
E1
-Y16
E2
CB.
-X09 0

+.B -XQ0 12 D

/M9.1 20L- +.B -XC30 D 333 Y
C 333 X
D 334 Y X
C 335 Y X
C 336 Y
20L- =H15/M1.8

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV Incoming Feeder SIGNAL CONTACT FOR EXTERNAL Circuit diagram	=HZ01.1 S =H12 +H12 M8
				Drawn	Herrmann				
A	change PCMI II	29.04.21	HE	Appr.	Jacobi				998574-000501 (3) W92210-L1965-S125-A Sheet 8+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by			17 Sh.

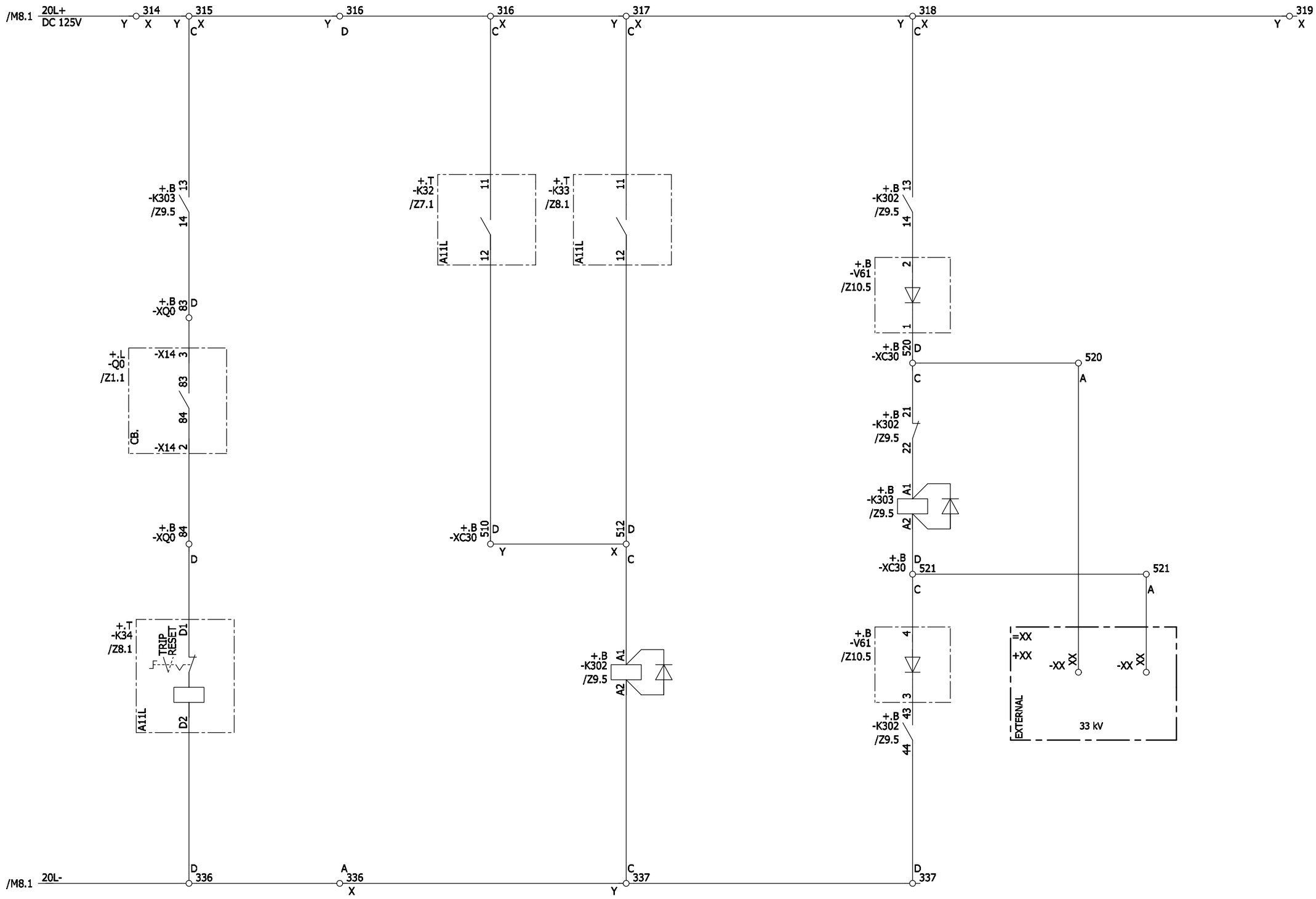
POSITION INDICATION CONTROL CIRCUIT

TRASNSFER TRIP | TO UPSTREAM

FROM UPSTREAM TRIP CIRCUIT | TRANSFER TRIP CIRCUIT TO 33 kV | TO UPSTREAM TRIP

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 9
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:

LV COMPARTMENT



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 M9
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501	(3) W92210-L1965-S125-A	Sheet 9+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			17 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 10
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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT

See DWG.= K00/G1-G9,AC/DC Bus wire (Ring Circuit)

CB1 · CB2 · TRIP1 · TRIP2 · RF1 · RF2

+.B -XR1 31 C — RR
+.B -XR1 32 C — RR
+.B -XR1 33 C — RR
+.B -XR1 34 C — RR
+.B -XR1 35 C — RR
+.B -XR1 36 C — RR

RR = Ring Loop

+.B -XC30 360 D C Y
361 X D Y
362 X D Y
363 X D

+.T -K30 /Z7.1 19 A11L 20
+.T -K32 /Z7.1 19 A11L 20
+.T -K33 /Z8.1 19 A11L 20
+.T -K34 /Z8.1 19 A11L 20

+.B -XC30 364 D Y
365 C X Y
366 C X Y
367 C X D

+.B -XC30 381 D C Y
382 X D
382 C Y

+.B -K50 /Z9.5 13 14
+.B -K51 /Z9.5 13 14
+.B -F20 /Z9.2 11 12

+.B -XC30 384 C D Y
385 D X
385 C Y

+.B -XC30 387 D C
+.B -K52 /Z9.5 13 14
+.B -XC30 388 C D

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name								
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 M10
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501	(3) W92210-L1965-S125-A	Sheet 10+
				Norm		Orig./Prep.for/Prep.by		Circuit diagram			17 Sh.

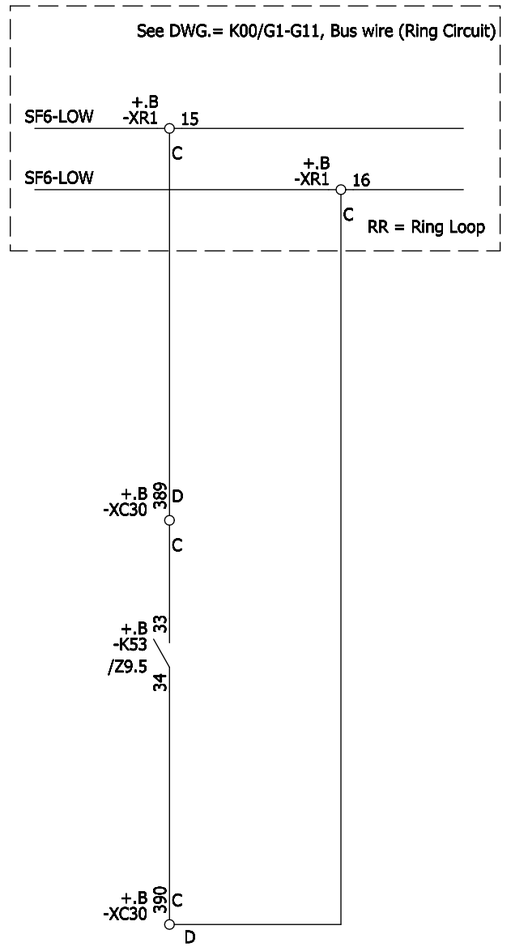
SIGNAL CONTACT FOR BUS WIRE

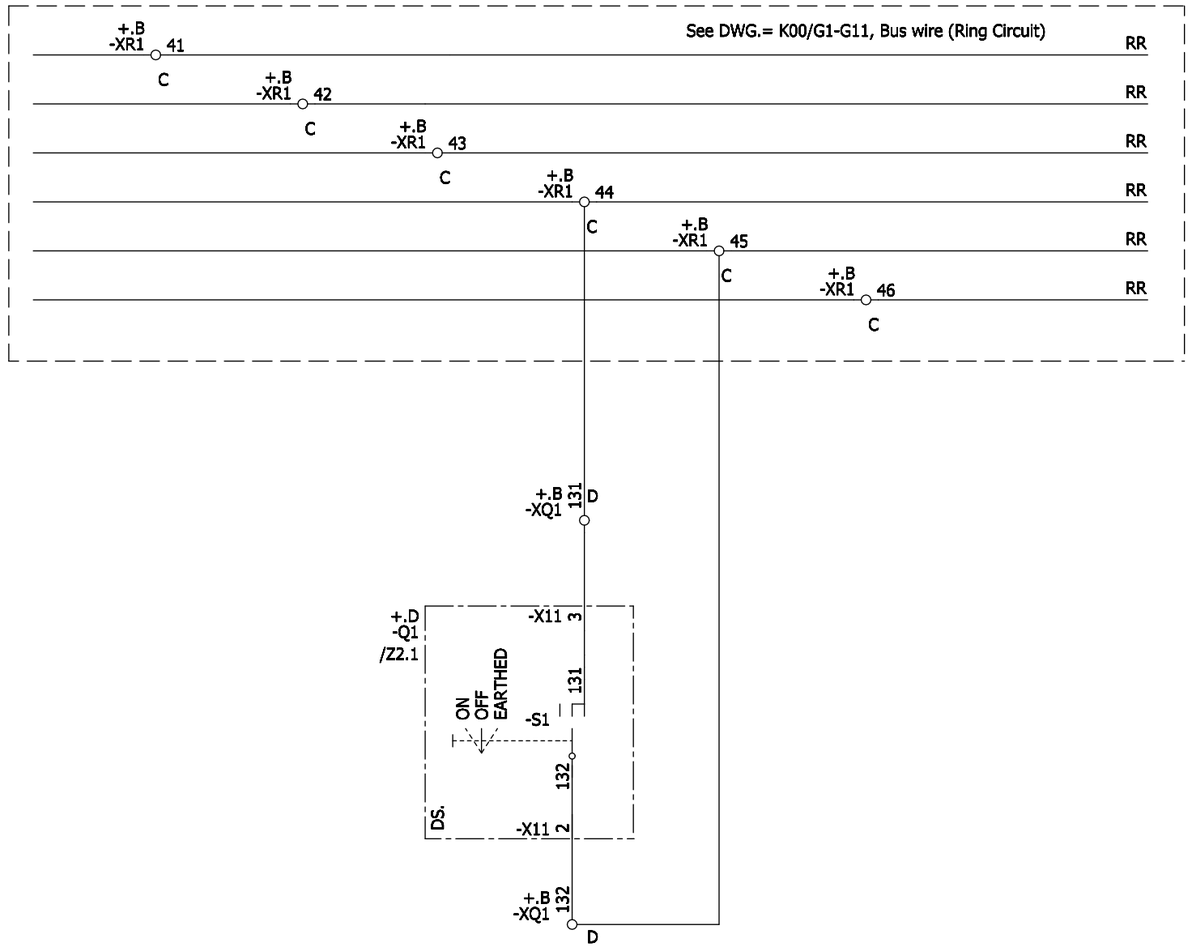
GAS MONITORING CIRCUIT

FOR CB. COMPARTMENT

INTERLOCKING BB ES

DS OFF





ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 11

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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT

Revision	Modification	Date	Name				
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW	Siemens AG
				Drawn	Herrmann	Siemens Limited (Taipei)	
				Appr.	Jacobi	33KV MAIN SUBSTATION	
				Norm		Orig./Prep.for/Prep.by	

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
SIGNAL CONTACT FOR EXTERNAL
Circuit diagram

=HZ01.1 | S | =H12
+H12 | M11

998574-000501 | (3) W92210-L1965-S125-A | Sheet 11+ 17 Sh.

SIGNAL CONTACT FOR EXTERNAL													
CIRCUIT BREAKER						ISOLATOR SWITCH		EARTHING SWITCH		CB ON TO BUSSECTION			
OFF	ON	TRIP				OFF	ON	OFF	ON	MAIN INCOMING MP2			

LV COMPARTMENT

=H10
+H10
-XC30 582
A

+.B -XQ0 71 — 73 — 81

+.L -Q0 /Z1.1
-X14 9 — 7 — 5
-S1 71 — 73 — 81
72 — 74 — 82
-X14 8 — 6 — 4
CB.

+.B -XQ0 82 — +.B -XC30 391 — +.B -XC30 392 — +.B -XC30 393
D C — D C — Y C — Y X — C X

+.T -K30 /Z7.1 — +.T -K32 /Z7.1 — +.T -K33 /Z8.1 — +.T -K34 /Z8.1
13 / 14 A11L

+.B -XQ0 72 — 74 — +.B -XC30 394 D — 395 C — 396 C — 397 C
Y — X Y — X Y — X

+.B -XQ1 151 A — +.B -XQ1 153 A

+.D -Q1 /Z2.1
-X13 3 — -X13 1
ON OFF EARTHED -S1
151 — 153
152 — 154
DS. -X13 2 — 0
+.B -XQ1 152 — 154
A — A

+.B -XQ1 551 A — +.B -XQ1 553 A

+.D -Q1 /Z3.1
-X53 3 — -X53 1
ON OFF EARTHED -S1
551 — 553
552 — 554
ES. -X53 2 — 0
+.B -XQ1 552 — 554
A — A

+.B -XC30 560 A
D
+.B -XQ0 33 C

+.L -Q0 /Z1.1
-X12 3
-S1 33 — 34
-X12 2
CB.

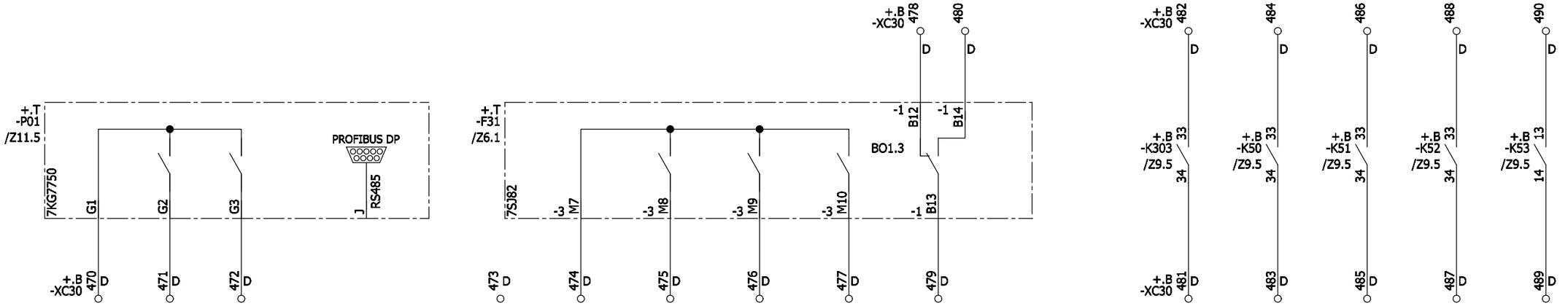
+.B -XQ0 34
C
+.B -XC30 561 D
A

=H10
+H10
-XC30 A 583

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S =H12	
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder		+H12	M12
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501	(3) W92210-L1965-S125-A	Sheet 12+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			17 Sh.

	SIGNAL CONTACT FOR EXTERNAL														
	POWER METER			BINARY INPUT					LOCKOUT RELAY						
	COMMUNICATION INTERFACE				SPARE	SPARE			51/51N	50/50N	SPARE				



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV			S	=H12	
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	=HZ01.1			+H12	M13
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL					
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S125-A			Sheet 13+ 17 Sh.

Project: C:/Herrmann/998574-000501.pro
Symbol library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 13

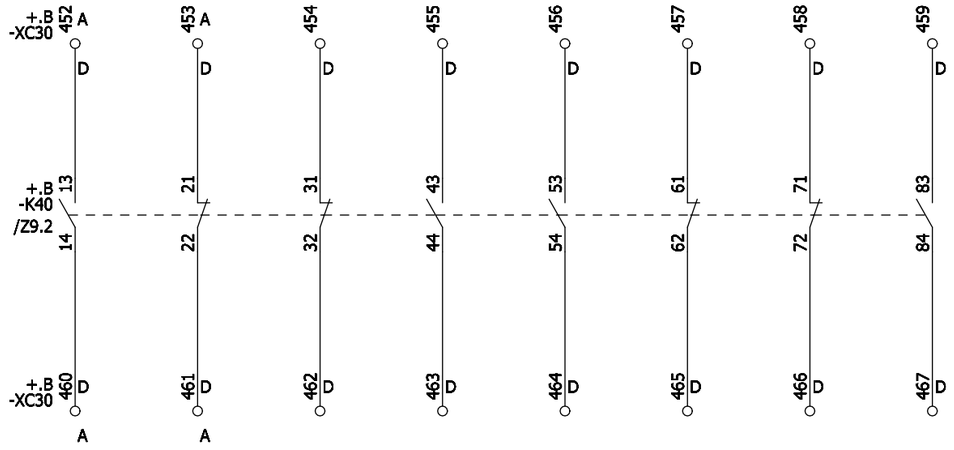
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 14

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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT

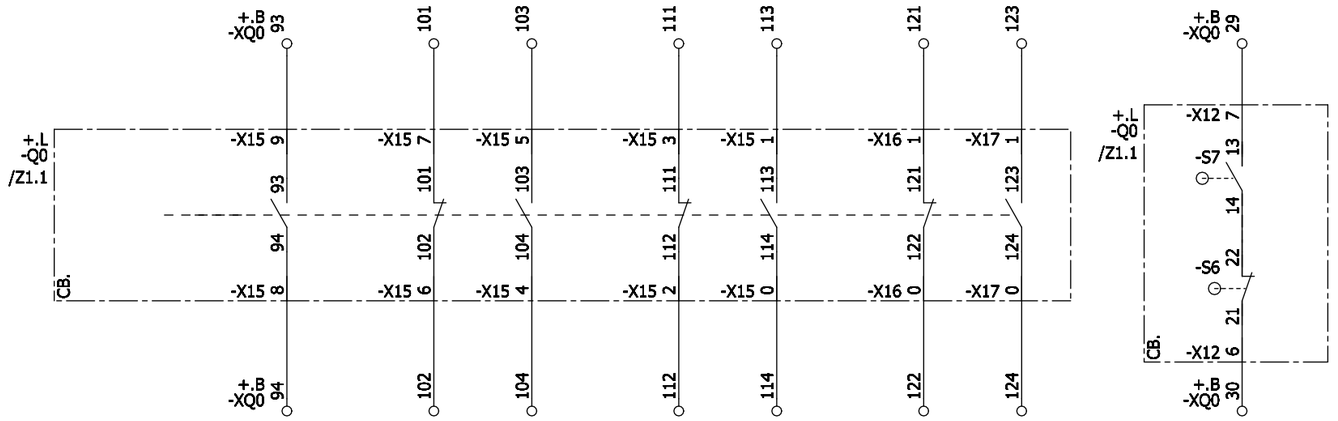
	CONTACT FOR EXTERNAL								
	AUXILIARY CONTACT FOR CB. STATUS								
		ON	OFF	OFF	ON	ON	OFF	OFF	ON



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 M14
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		INDICATION / STATUS	998574-000501	(3) W92210-L1965-S125-A	Sheet 14+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			17 Sh.

	CONTACT FOR EXTERNAL										
		CIRCUIT BREAKER									BREAKER TRIPPING
			ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	INDICATION



Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / M / 15

Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

LV COMPARTMENT

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name				
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW	
				Drawn	Herrmann	Siemens Limited (Taipei)	
				Appr.	Jacobi	33KV MAIN SUBSTATION	
				Norm		Orig./Prep.for/Prep.by	

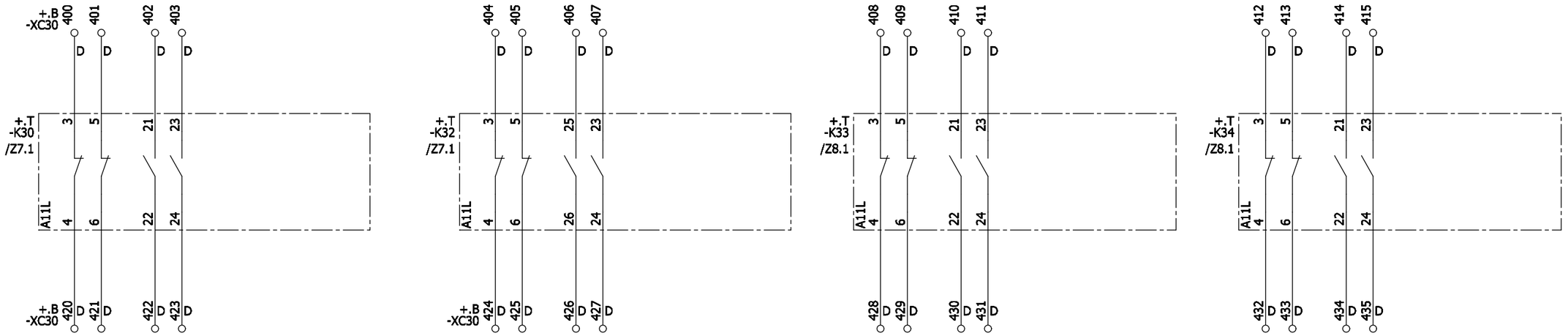
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
CONTROL CIRCUIT
Circuit diagram

=HZ01.1	S	=H12		
		+H12	M15	
998574-000501	(3) W92210-L1965-S125-A		Sheet 15+ 17 Sh.	

	SIGNAL CONTACT FOR EXTERNAL			
	LOCKOUT RELAY FOR SPARE			
	51/51N TRIP	TRIP FROM 11,5kV	67/67N/51NR/63 TRIP	TRANSFER TRIP

LV COMPARTMENT

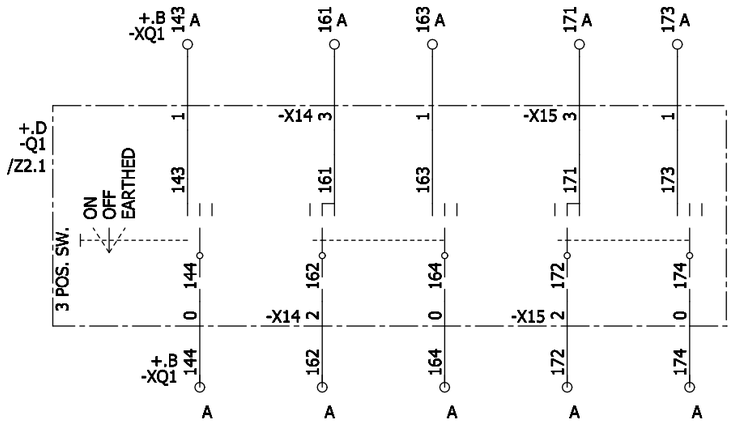


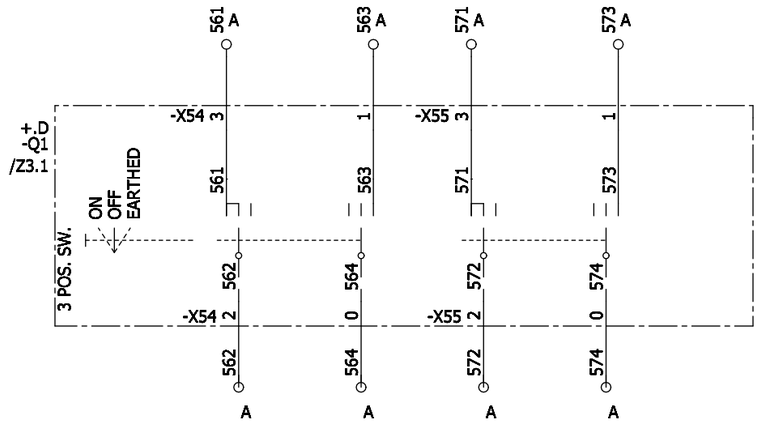
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 M16
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501	(3) W92210-L1965-S125-A	Sheet 16+ 17 Sh.
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			

	SPARE AUXILIARY CONTACT						SPARE AUXILIARY CONTACT				
	ISOLATOR SWITCH						EARTHING SWITCH				
		ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	

LV COMPARTMENT





ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 M17
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL CIRCUIT	998574-000501	(3) W92210-L1965-S125-A	Sheet 17-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			17 Sh.

1st SECONDARY CORE OF CURRENT TRAMSFORMER

FOR PROTECTION

HV COMP.

LV COMPARTMENT

1st Core
2000/5A
15VA Cl. 5P20

+.F -T1L1 /Z11.5 1S2 1S1
+.F -T1L2 /Z11.5 1S2 1S1
+.F -T1L3 /Z11.5 1S2 1S1

H07V-K 4,0 BK

DL = Disconnect. link
SB = Sliding Bridge

+.B PE
H07V-K 4,0 GNYE
+.B -XPE 2
H07V-K 4,0 GNYE

111 A X
121 A Y X
131 A Y
110PE A B
111 Y X

+.B -XT1 112 A SB
122 A SB
132 A SB

DL +.B -XT1 112 B
DL 122 B
DL 132 B
DL 111 B

+.T -GND
FLAT CABLE 2,5x22mm Cu

+.T -F31 /Z6.1
7SJ82
-1 A1 IL1 -1 A2
-1 A3 IL2 -1 A4
-1 A5 IL3 -1 A6
-1 A7 $3I_0$ -1 A8
-2 PE

ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / S / 1

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:

Revision	Modification	Date	Name								
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV			
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	=HZ01.1	S	=H12
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS			+H12 S1
				Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S125-A	Sheet 1+ 5 Sh.

2nd SECONDARY CORE OF CURRENT TRAMSFORMER

FOR METERING

HV COMP.

LV COMPARTMENT

2nd Core
2000/5A
30VA Cl. 1FS10

+.F -T1L1 /Z11.5 2S2 2S1
+.F -T1L2 /Z11.5 2S2 2S1
+.F -T1L3 /Z11.5 2S2 2S1

H07V-K 4,0 BK

DL = Disconnect. link
SB = Sliding Bridge

+.B -XPE 3 — H07V-K 4,0 GNYE
+.B -XPE 4 — GNYE — H07V-K 2,5

+.T -P01 /Z11.5 7KG7750
E1 E3 E5 E2 E4 E6 PE
IL1 IL2 IL3
CURRENT

+.B -XT1 212 222 232 211 242 252 262 241
A SB
DL
B
211 221 231 241 251 261
X Y
210PE

ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / S / 2

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:

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1 S =H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	+H12 S2
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS	998574-000501 (3) W92210-L1965-S125-A Sheet 2+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	5 Sh.

SECONDARY WINDING -T5 VOLTAGE TRAFO (110V)

FOR PROTECTION | FOR METERING | FOR Main XTR RCP

L1, L2, L3
36 kV/√3 / 120 V/√3
200 VA / Cl. 1

HV COMP.

LV COMPARTMENT

H07V-K 4,0 BK
H07V-K 2,5 BK
H07V-K 4,0 GNYE

-T5L1 /Z11.2 n a
-T5L2 /Z11.2 n a
-T5L3 /Z11.2 n a

-XT5L1 4 3
-XT5L2 4 3
-XT5L3 4 3

-XPE 5 B
-XL1A 1a 1n
-XL2A 1a 1n
-XL3A 1a 1n

503PE 506PE 509PE

-XT5A 501 504 507

-XT5 501 504 507

-F50 /Z9.2 3A. 1 3 5 2 4 6

-XT5 511 513 515

-XT5 519 520

-XT 100 101 102 103

-XT 108 109 110 111

DL

-F31 /Z6.1 -1 B1 B3 B4 B2
V1 V2 V3
7SJ8041

-P01 /Z11.5 F1 F2 F3 F4
VOLTAGE
UL1 UL2 UL3 UN
7KG7750

-XT5L1 5 2
-XT5L2 5 2
-XT5L3 5 2

-XL1B 2a 2n
-XL2B 2a 2n
-XL3B 2a 2n

533PE 536PE 539PE

-XT5A 531 534 537

-XT5L1 6 1
-XT5L2 6 1
-XT5L3 6 1

-XL1C da dn
-XL2C da dn
-XL3C da dn

-XT5A 581 583 584 586 587 589PE 590PE

-F51 /Z9.2 3A. 1 3 5 2 4 6

-XT5 512 514 516

=EXT
+EXT
-XX XX

ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / S / 3

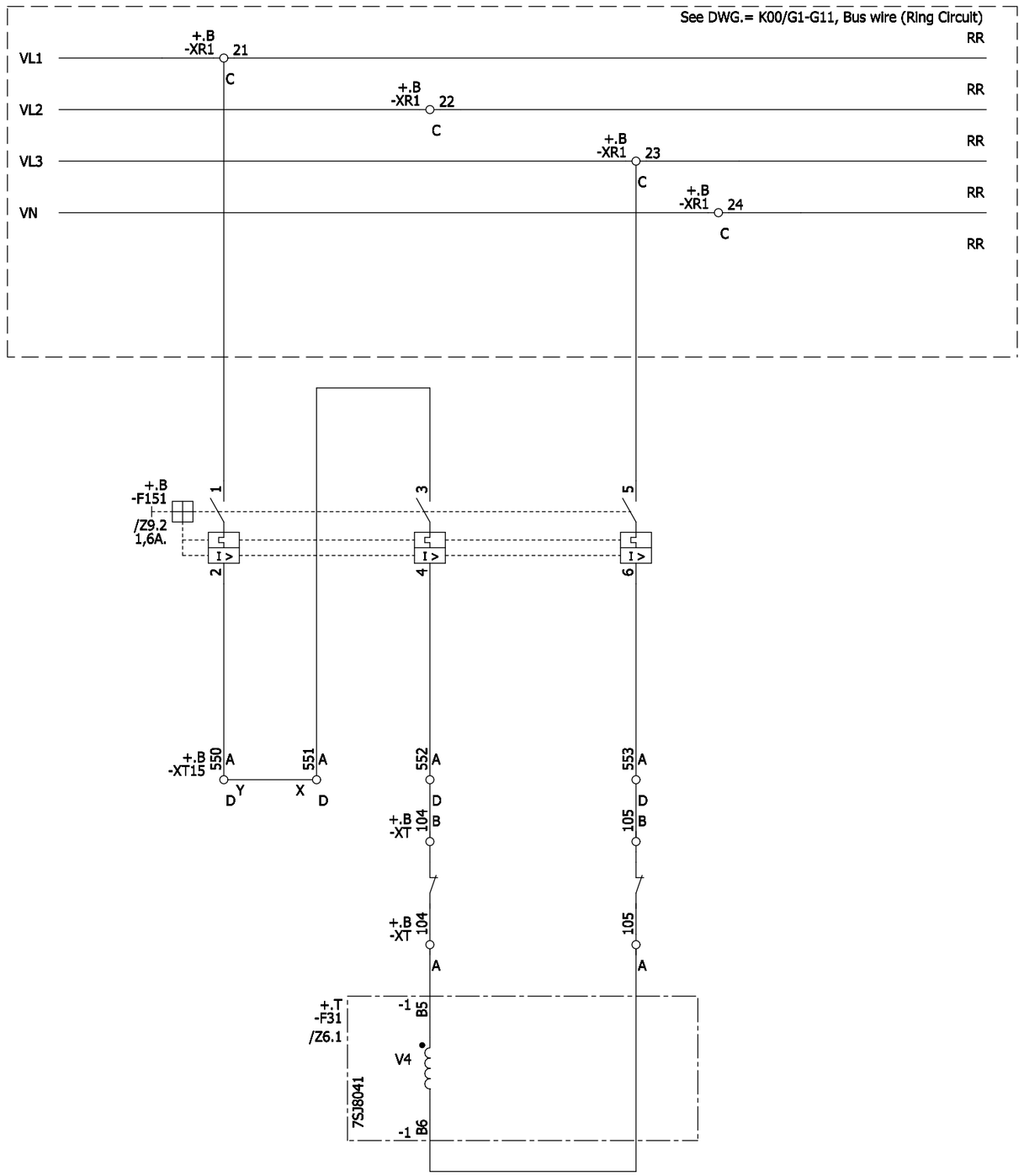
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1 S =H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	+H12 S3
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS	998574-000501 (3) W92210-L1965-S125-A Sheet 3+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	5 Sh.

SECONDARY WINDING OF BUSBAR VOLTAGE TRAFO

FROM AC. BUSWIRE VOLTAGE (INCOMING FEEDER)

FOR PROTECTION

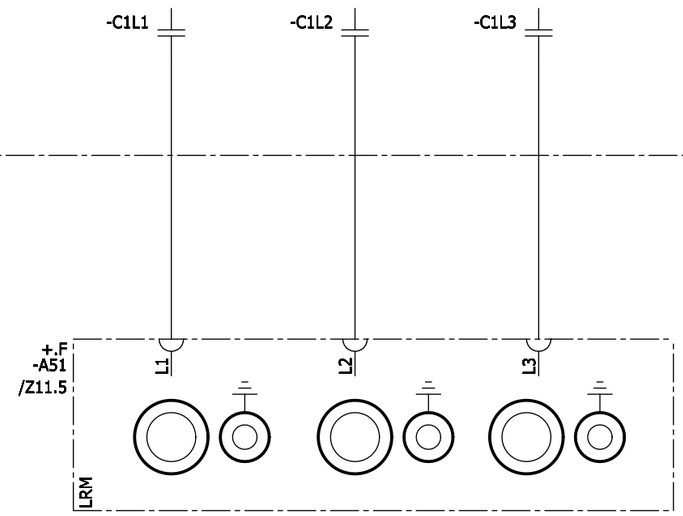


ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

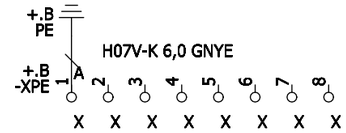
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV			
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	=HZ01.1	S =H12	
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS		+H12	S4
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S125-A	Sheet 4+ 5 Sh.

HV COMP.

CAP. VOLTAGE TAP



LV COMPARTMENT



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 S5
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CAPDIS-S1+	998574-000501	(3) W92210-L1965-S125-A	Sheet 5-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			5 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 1

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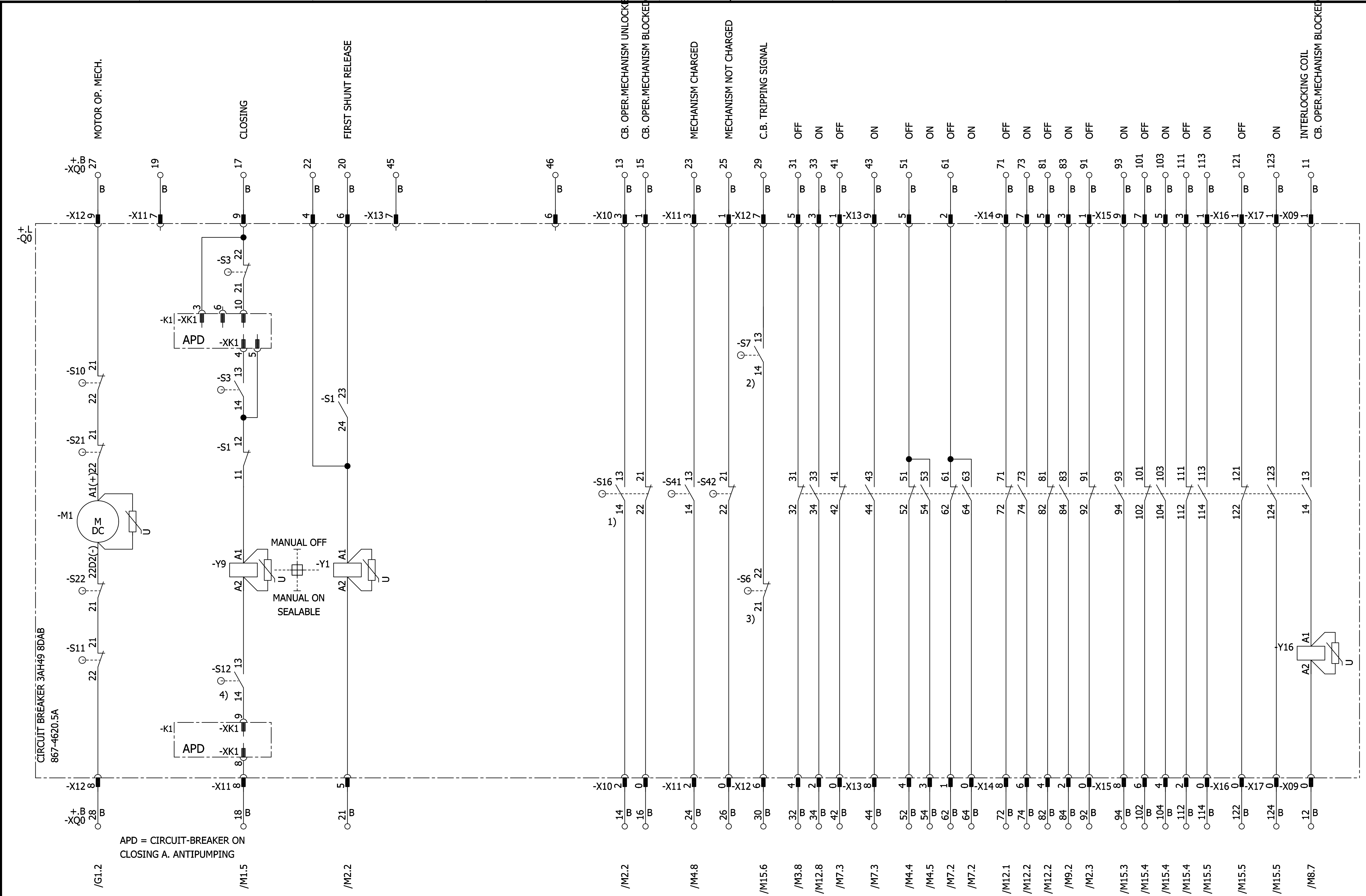
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:



1) OPERATES WHEN CB. TRIP IS NOT LOCKED OUT

2) OPERATES WHEN MECH. OFF IS NOT PRESSED

3) OPERATES WHEN NO TRIPPING

4) INTERLOCKING OF ELECTRICAL CLOSING OF THE CB IN CASE OF MANUAL OPERATION OF THE THREE-POSITION SWITCH

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CIRCUIT BREAKER
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram

=HZ01.1	S	=H12	
		+H12	Z1
998574-000501	(3) W92210-L1965-S125-A		Sheet 1+
			11 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 2

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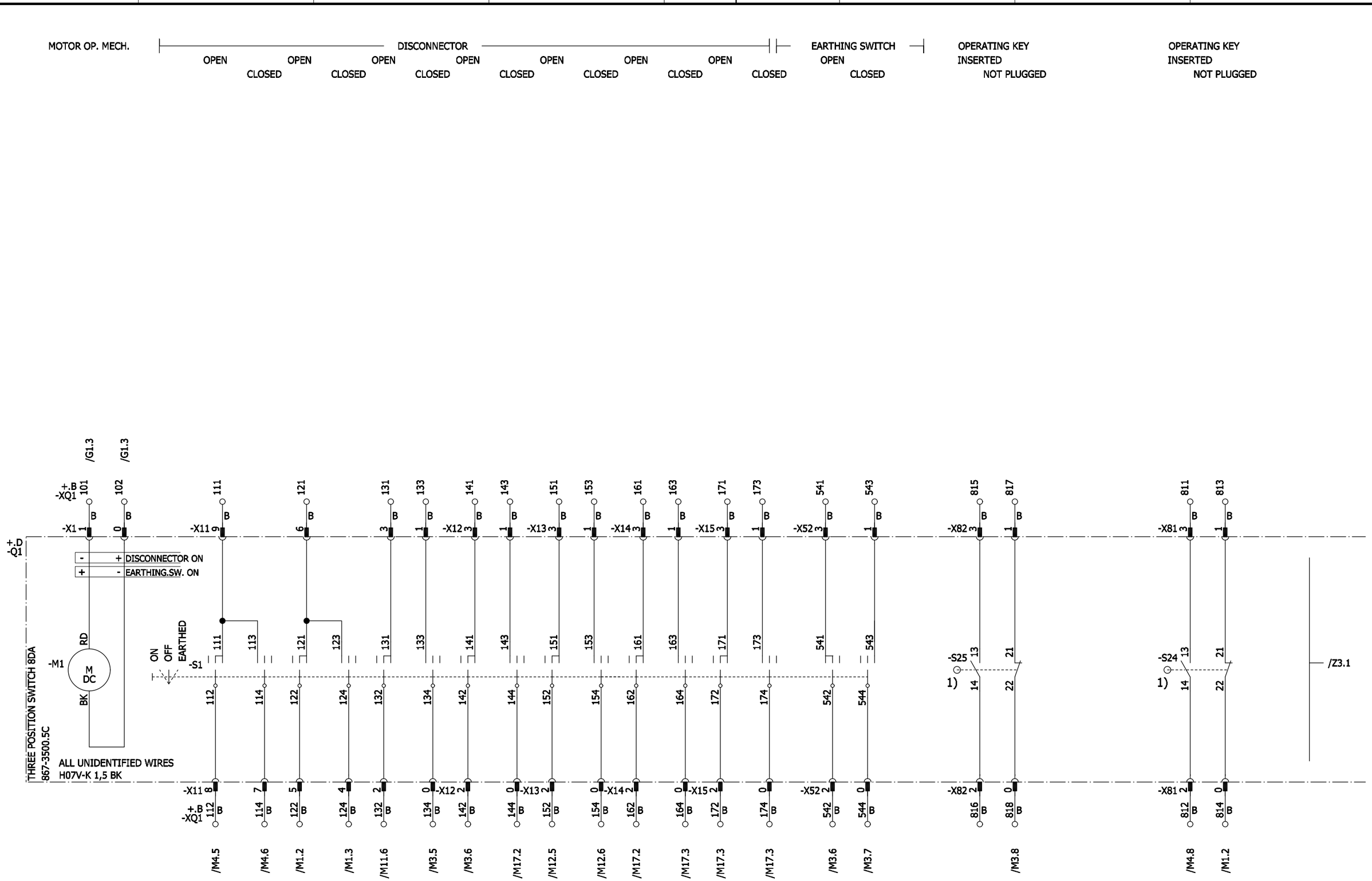
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

MOTOR OP. MECH. — DISCONNECTOR — EARTHING SWITCH — OPERATING KEY — OPERATING KEY

DISCONNECTOR							EARTHING SWITCH	OPERATING KEY	OPERATING KEY
OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	INSERTED	INSERTED
CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	NOT PLUGGED	NOT PLUGGED



1) SHOWN WITH LEVER NOT INSERTED

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
THREE POSITION SWITCH
Circuit diagram

=HZ01.1 | S | =H12 | +H12 | Z2

998574-000501 | (3) W92210-L1965-S125-A | Sheet 2+ 11 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 3

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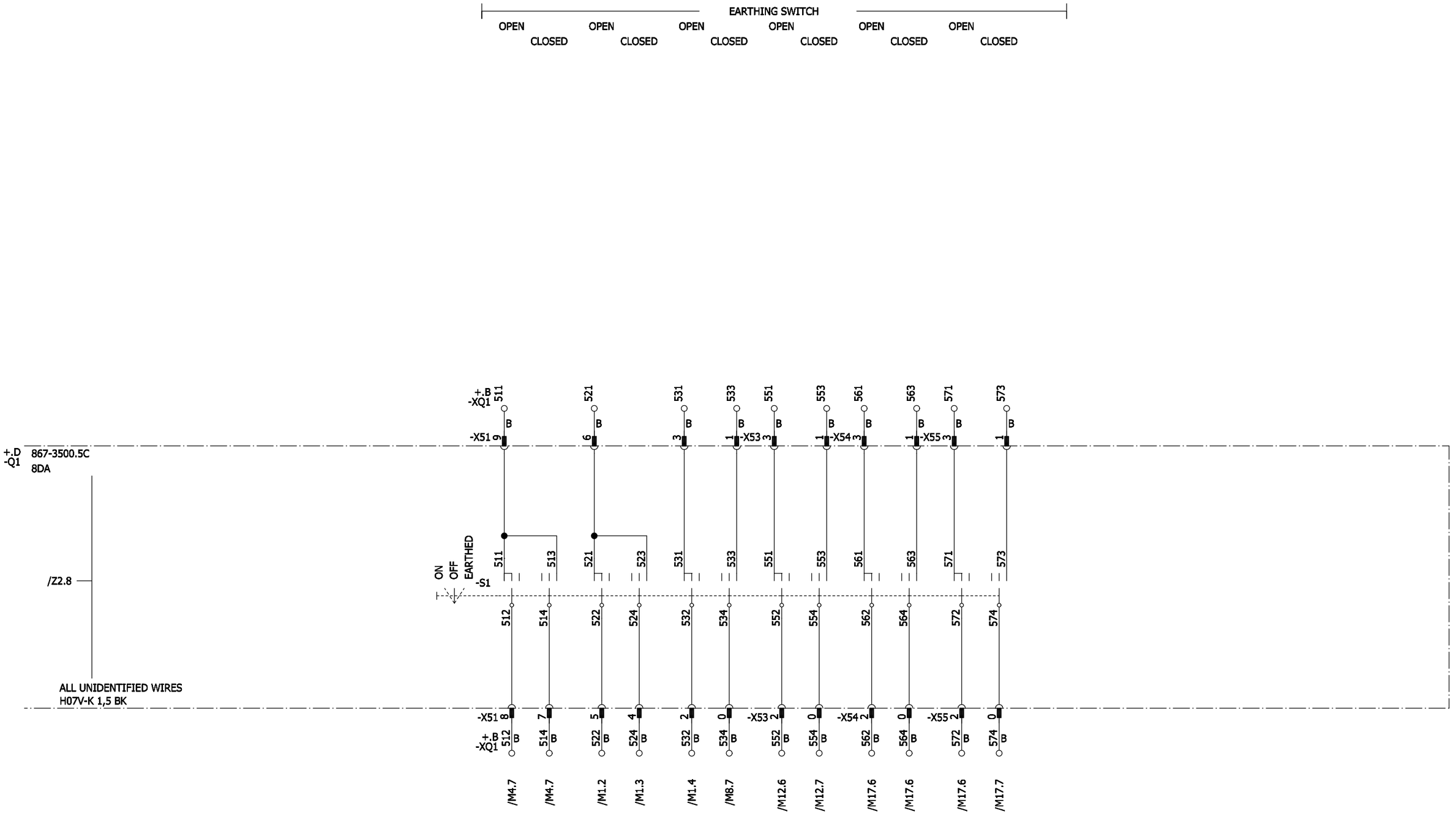
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 Z3
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		THREE POSITION SWITCH	998574-000501	(3) W92210-L1965-S125-A	Sheet 3+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			11 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 4

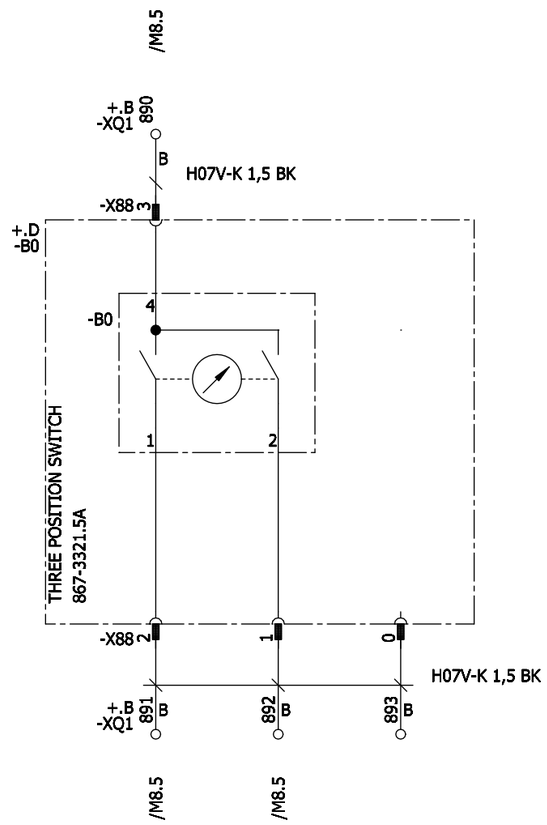
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

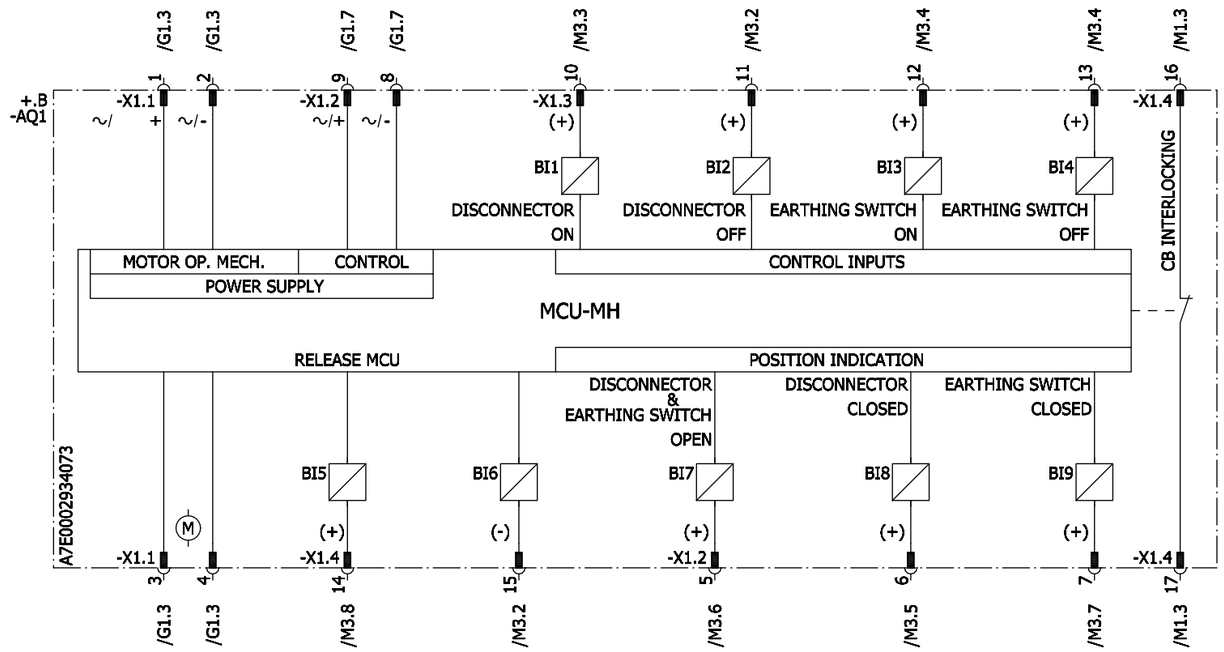
GAS PRESSURE MONITORING
CIRCUIT BREAKER -Q0
P< P>

PLEASE NOTE:

MANOMETER WITH 2 ALARM CONTACTS (STANDARD)
CONTACT 1: UNDERPRESSURE P<
CONTACT 2: OVERPRESSURE P>



				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 Z4
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		VOIS +	998574-000501	(3) W92210-L1965-S125-A	Sheet 4+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			11 Sh.



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 5

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

Revision	Modification	Date	Name				
				Date	07.04.2021	Vena new energy company / TW	Siemens AG
				Drawn	Herrmann	Siemens Limited (Taipei)	
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION	
				Norm		Orig./Prep.for/Prep.by	

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
PROTECTION DEVICE
Circuit diagram

=HZ01.1 | S | =H12
+H12 | Z5
998574-000501 | (3) W92210-L1965-S125-A | Sheet 5+ 11 Sh.

+.T
-F31

MULTIFUNCTIONAL PROTECTION WITH CONTROL
LANG: 7SJ82-DAAA-AA0-007820-AK0411-121 1B-BAA000-000AB0-HB1BD4-JA0
KURZ: [illegible]

IO102

-1

TRANSFORMER INPUTS

/S1.3	A1	I_1	
/S1.3	A2		
/S1.3	A3	I_2	
/S1.3	A4		
/S1.3	A5	I_3	
/S1.4	A6		
/S1.4	A7	I_4	
/S1.4	A8		
/S1.4	B1	U_1	
/S3.2	B3	U_2	
/S3.2	B4	U_3	
/S3.3	B2		
/S3.2	B5	U_4	
/S4.3	B6		
/S4.3			

BINARY INPUTS

/M2.8	D4	L+	
/M2.8	D6		BI 1.1
/M5.2	D7	L+	BI 1.2
/M5.2	D8	L+	BI 1.3
/M5.3	D9	L+	BI 1.4
/M5.4	D10	L+	BI 1.5
/M5.5	D11	L+	BI 1.6
/M5.6	D12	L+	BI 1.7
/M5.6	D13	L+	BI 1.8
/M5.2	D14		

BINARY OUTPUTS

/M2.2	B7	BO 1.1
/M2.2	B8	
/M6.3	B10	
/M6.3	B9	
/M6.3	B11	BO 1.2
/M13.5	B13	
/M13.5	B12	
/M13.5	B14	BO 1.3
/M1.7	D1	BO 1.4
/M1.8	D3	BO 1.5
/M1.8	D5	BO 1.6
/M1.7	D2	

PS101

POWER SUPPLY

-2

/G1.6	L1	L+	
/G1.6	L2	L-	

BINARY INPUTS

/M4.1	L12	L+	BI 2.1
/M4.2	L14	L+	BI 2.2
/M4.2	L13	L+	BI 2.3
/M4.1	L11		

BINARY OUTPUTS

/M6.1	L3	BO 2.1
/M6.1	L4	
/M7.6	L5	
/M7.6	L6	BO 2.2
/M7.6	L8	
/M8.4	L10	
/M8.4	L7	LIVE CONTACT
/M8.4	L9	

FP		FRONT INTERFACE USB
J		SYSTEM INTERFACE
G		D-Sub 9
E1		LC DUPLEX INTERFACE
E2		
F1		
F2		
PE	(PE)	/S1.4

IO110

-3

BINARY INPUTS

/M2.7	N2	L+	BI 3.1
/M2.8	N3	L+	BI 3.2
/M2.7	N1		
	N4		NC
/M4.3	N5	L+	BI 3.3
/M4.4	N6	L+	BI 3.4
/M4.4	N7	L+	BI 3.5
/M4.5	N8	L+	BI 3.6
/M4.5	N9	L+	BI 3.7
/M4.6	N10	L+	BI 3.8
/M4.7	N12	L+	BI 3.9
/M4.7	N13	L+	BI 3.10
/M4.8	N14	L+	BI 3.11
/M4.8	N15	L+	BI 3.12
/M4.3	N11		

BINARY OUTPUTS

/M3.2	M2	BO 3.1
/M3.3	M3	BO 3.2
/M3.4	M4	BO 3.3
/M3.4	M5	BO 3.4
/M3.2	M1	
	M6	NC
/M13.4	M8	BO 3.5
/M13.4	M9	BO 3.6
/M13.5	M10	BO 3.7
/M13.4	M7	

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 6

Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

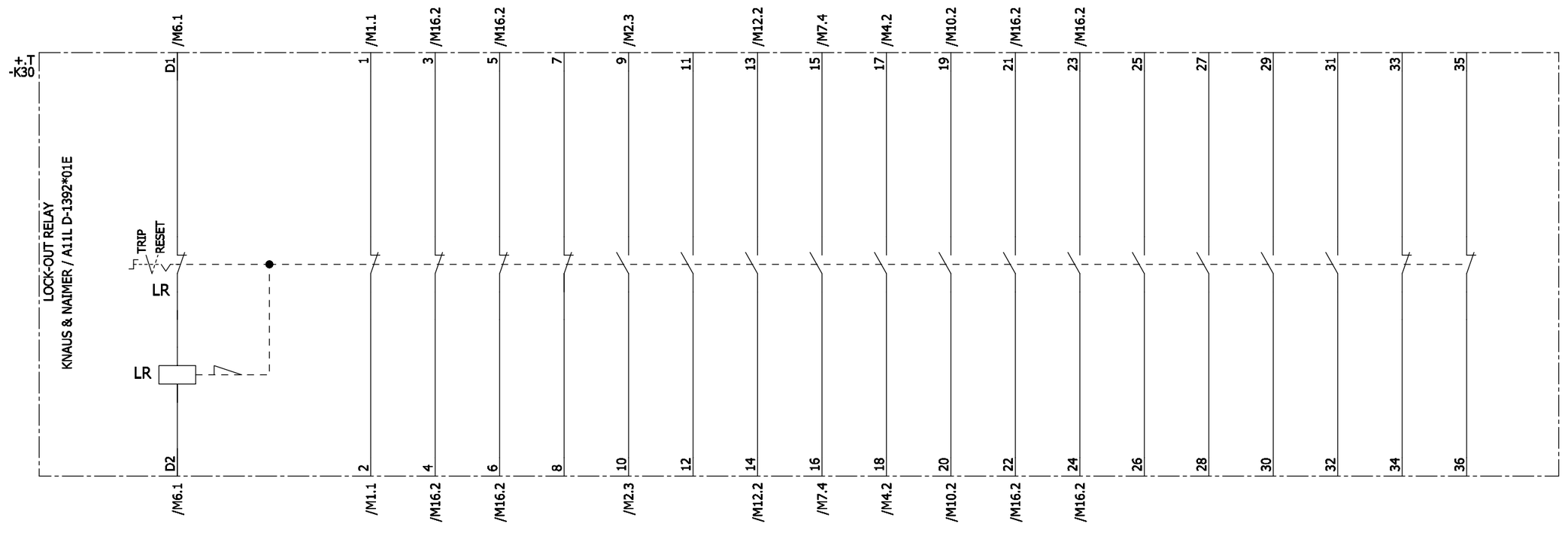
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

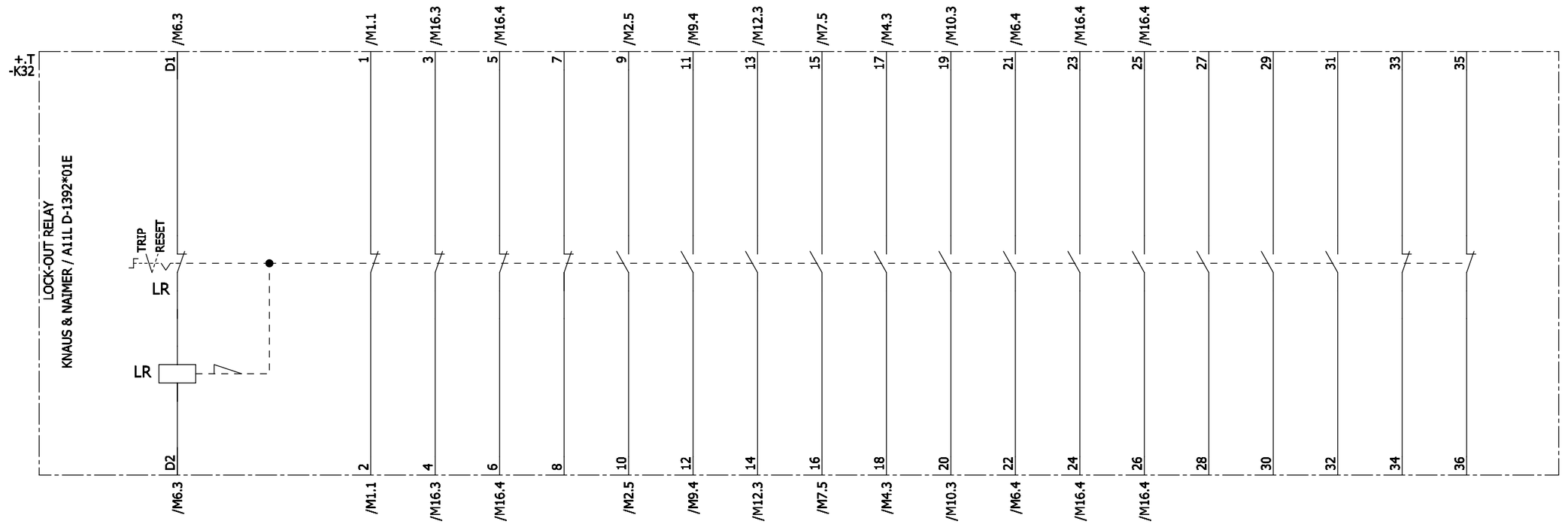
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1 S =H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	+H12 Z6
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501 (3) W92210-L1965-S125-A Sheet 6+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	11 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 7

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:





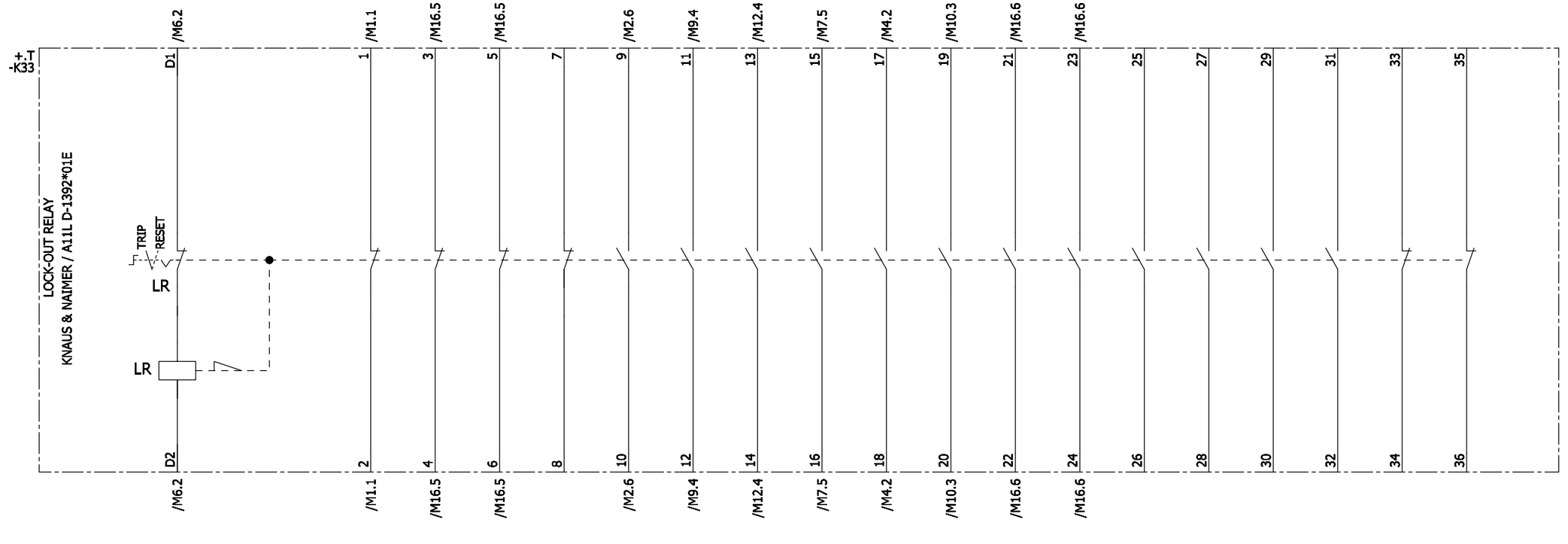
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

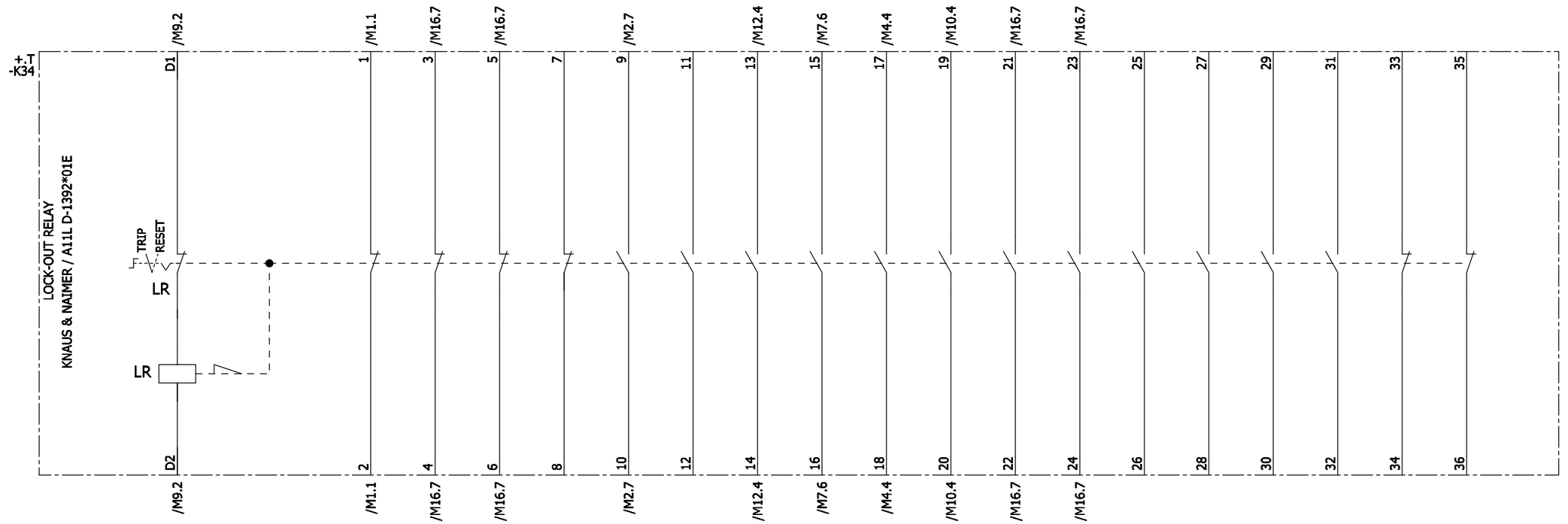
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 Z7
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501	(3) W92210-L1965-S125-A	Sheet 7+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			11 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 8

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:





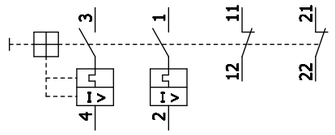
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 Z8
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501	(3) W92210-L1965-S125-A	Sheet 8+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			11 Sh.

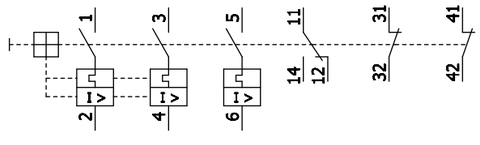
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 9

Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

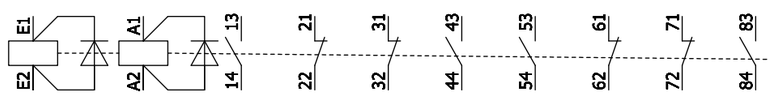
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:



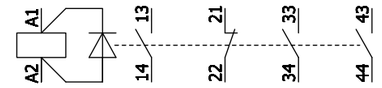
5SY5204-7 +.B 2-pol, C 4A -F10 5ST3012 2NC CB. MOTOR DRIVE	/G1.2	/G1.2	/M7.7	/M8.2	
5SY5206-7 +.B 2-pol, C 6A -F20 5ST3012 2NC CONTROL/PROTECTION	/G1.5	/G1.5	/M10.6		
5SY5202-7 +.B 2-pol, C 2A -F11 5ST3012 2NC TPS. MOTOR DRIVE	/G1.3	/G1.3	/M7.7	/M8.2	



3RV1611-1DG14 +.B 3RV2901-1C -F50 3A PROTECTION/METERING	/S3.2	/S3.2	/S3.3	/M5.4	/M7.8	/M8.3	
3RV1611-1DG14 +.B 3RV2901-1C -F51 3A PROTECTION/METERING	/S3.6	/S3.7	/S3.8	/M5.3	/M7.8	/M8.3	
3RV1611-1AG14 +.B 3RV2901-1C -F151 1,6A PROTECTION/METERING	/S4.2	/S4.3	/S4.3	/M5.5	/M7.9	/M8.3	



3RH2422-1BG40 +.B 3RH2911-1FA22 -K40 2 x 3RT2916-1DG00 125V DC CB. STATUS "OFF/ON"	/M7.2	/M7.2	/M14.3	/M14.3	/M14.4	/M14.4	/M14.5	/M14.5	/M14.5	/M14.6



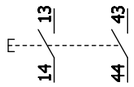
3RH2131-1BG40 +.B 3RT2916-1DG00 -K1 125V DC CB. OFF EXTERNAL	/M6.5	/M1.6			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K2 125V DC CB. ON EXTERNAL	/M6.6	/M1.6		/M1.7	
3RH2131-1BG40 +.B 3RT2916-1DG00 -K50 125V DC MCB. TRIP	/M8.2	/M10.5		/M13.7	/M5.2
3RH2131-1BG40 +.B 3RT2916-1DG00 -K51 125V DC VT MCB. TRIP	/M8.3	/M10.5		/M13.7	/M5.2
3RH2131-1BG40 +.B 3RT2916-1DG00 -K52 125V DC LIVE STATUS CONTACTS	/M8.4	/M10.7		/M13.7	
3RH2131-1BG40 +.B 3RT2916-1DG00 -K53 125V DC SF6-GAS ALARM "LOW"	/M8.5	/M13.8		/M11.2	/M5.3
3RH2131-1BG40 +.B 3RT2916-1DG00 -K1A 125V DC	/M6.6	/M3.3			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K1E 125V DC	/M6.7	/M3.3			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K5A 125V DC	/M6.8	/M3.4			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K5E 125V DC	/M6.8	/M3.5			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K303 125V DC TRIP FROM DOWNST. TRAFO	/M9.6	/M9.2		/M13.6	
3RH2131-1BG40 +.B 3RT2916-1DG00 -K302 125V DC TRIP TO DOWNST. TRAFO	/M9.4	/M9.6	/M9.6		/M9.6

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1 S =H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	+H12 Z9
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501 (3) W92210-L1965-S125-A Sheet 9+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	11 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 10

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:

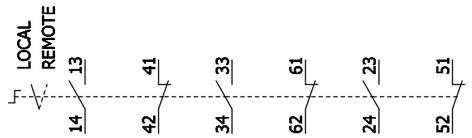


	3SU1000-0AB20-0AA0	/M1.4	/M1.6
+.T	RED		
-S0E	3SU1500-0AA10-0AA0		
	3SU1400-1AA10-1DA0		
	3SU1900-0AN10-0AA0		
	PRINT-3SU-27-12-01-04		
	3SU1000-0AB40-0AA0	/M1.5	
+.T	GREEN		
-S0A	3SU1500-0AA10-0AA0		
	3SU1400-1AA10-1DA0		
	3SU1900-0AN10-0AA0		
	PRINT-3SU-27-12-01-04		

CB ON
12,5x27mm

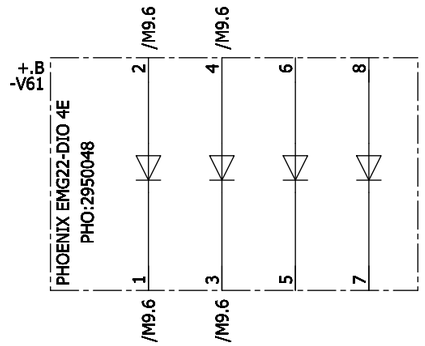
CB OFF
12,5x27mm

	3SU1001-6AA40-0AA0	/M7.3	CB. OFF
+.T	ILLUMINATION green		
-H0A	3SU1401-1BH40-1AA0		
	3SU1900-0AG10-0AA0		
	3SU1500-0AA10-0AA0		
	PRINT-3SU-27-12-01-04		
	3SU1001-6AA20-0AA0	/M7.3	CB. ON
+.T	ILLUMINATION red		
-H0E	3SU1401-1BH20-1AA0		
	3SU1900-0AG10-0AA0		
	3SU1500-0AA10-0AA0		
	PRINT-3SU-27-12-01-04		
	3SU1001-6AA60-0AA0	/M7.4	PROTECTION TRIP
+.T	ILLUMINATION white		
-H30	3SU1401-1BH60-1AA0		
	3SU1900-0AG10-0AA0		
	3SU1500-0AA10-0AA0		
	PRINT-3SU-27-12-01-04		
	3SU1001-6AA30-0AA0	/M7.7	DC. MCB TRIP
+.T	ILLUMINATION yellow		
-H40	3SU1401-1BH30-1AA0		
	3SU1900-0AG10-0AA0		
	3SU1500-0AA10-0AA0		
	PRINT-3SU-27-12-01-04		
	3SU1001-6AA30-0AA0	/M7.8	PT. MCB TRIP
+.T	ILLUMINATION yellow		
-H50	3SU1401-1BH30-1AA0		
	3SU1900-0AG10-0AA0		
	3SU1500-0AA10-0AA0		
	PRINT-3SU-27-12-01-04		
	3SU1001-6AA60-0AA0	/M7.6	UNDER/OVER VOLTAGE
+.T	ILLUMINATION white		
-H60	3SU1401-1BH60-1AA0		
	3SU1900-0AG10-0AA0		
	3SU1500-0AA10-0AA0		
	PRINT-3SU-27-12-01-04		



CONTROL SW.
LOC. REM.

	3SU1002-2BF60-0AA0	/M1.6	/M1.4	/M1.6	/M3.2	/M3.1	
+.T	3 x 3SU1400-1AA10-1FA0						
-S20	3SU1900-0AG10-0AA0						
	3SU1500-0AA10-0AA0						
	PRINT-3SU-27-12-01-04						



				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1 S =H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	+H12 Z10
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501 (3) W92210-L1965-S125-A Sheet 10+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	11 Sh.

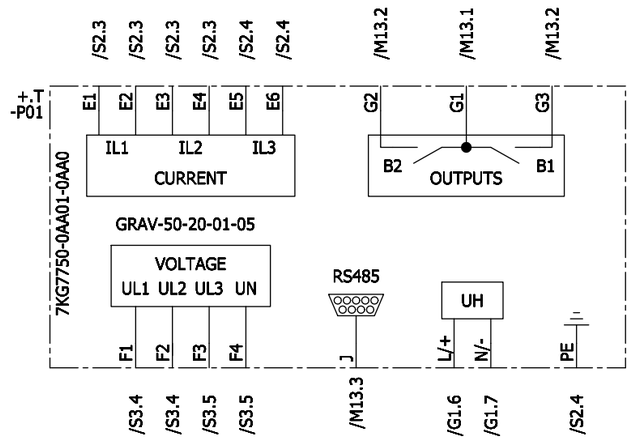
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H12 / S / Z / 11

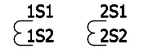
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

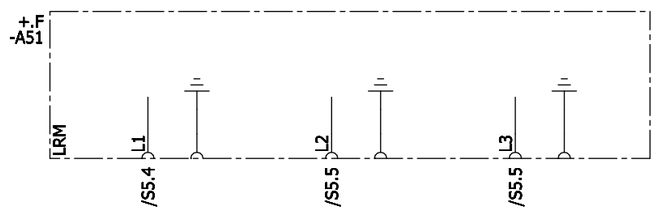
a n

4MT2 +.F 36kV/√3 / 120V/√3 -T5L1 200 VA / Cl. 1	/S3.1
4MT2 +.F 36kV/√3 / 120V/√3 -T5L2 200 VA / Cl. 1	/S3.2
4MT2 +.F 36kV/√3 / 120V/√3 -T5L3 200 VA / Cl. 1	/S3.3





4MC4_30 +.F 1st Core= 2000/5A; 15VA Cl. 5P20 -T1L1 2nd Core= 2000/5A; 30VA Cl. 1FS10	/S1.3	/S2.3
4MC4_30 +.F 1st Core= 2000/5A; 15VA Cl. 5P20 -T1L2 2nd Core= 2000/5A; 30VA Cl. 1FS10	/S1.3	/S2.3
4MC4_30 +.F 1st Core= 2000/5A; 15VA Cl. 5P20 -T1L3 2nd Core= 2000/5A; 30VA Cl. 1FS10	/S1.4	/S2.4



				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1	S	=H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder			+H12 Z11
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501	(3) W92210-L1965-S125-A	Sheet 11-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			11 Sh.

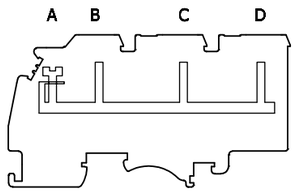
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBKLP2-13
Archive: =H12 / V / / / 1

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

1	2	3	4	5	6	7	8	9	10	11	12	13	14

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:



Cable connection to termination

A [ ] B [ ] C [ ] D [ ]

Terminal	Terminal block type	Wire type
11-46	UPCV3K	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 24

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Termination B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
		-XR1				
		11	=H00/G2.7	=H10 +.B -XR1 :11 A	-F10 :3	=H13 +.B -XR1 :11 B
		12	=H00/G2.7	=H10 +.B -XR1 :12 A	-F10 :1	=H13 +.B -XR1 :12 B
		13	=H00/G2.7	=H11 +.B -XR1 :13 D	-F20 :3	=H13 +.B -XR1 :13 B
		14	=H00/G2.7	=H11 +.B -XR1 :14 D	-F20 :1	=H13 +.B -XR1 :14 B
		15	=H00/G2.7	=H11 +.B -XR1 :15 D	-XC30 :389 D	=H13 +.B -XR1 :15 B
		16	=H00/G2.7	=H11 +.B -XR1 :16 D	-XC30 :390 D	=H13 +.B -XR1 :16 B
		21	=H00/G2.7	=H11 +.B -XR1 :21 D	-F151 :1	=H13 +.B -XR1 :21 B
		22	=H00/G2.7	=H11 +.B -XR1 :22 D		=H13 +.B -XR1 :22 B
		23	=H00/G2.7	=H11 +.B -XR1 :23 D	-F151 :5	=H13 +.B -XR1 :23 B
		24	=H00/G2.7	=H11 +.B -XR1 :24 D		=H13 +.B -XR1 :24 B
		25	=H00/G2.7	=H11 +.B -XR1 :25 D	-F11 :3	=H13 +.B -XR1 :25 B
		26	=H00/G2.7	=H11 +.B -XR1 :26 D	-F11 :1	=H13 +.B -XR1 :26 B
		31	=H00/G2.7	=H11 +.B -XR1 :31 D	-XC30 :360 D	=H13 +.B -XR1 :31 B
		32	=H00/G2.7	=H11 +.B -XR1 :32 D	-XC30 :367 D	=H13 +.B -XR1 :32 B
		33	=H00/G2.7	=H11 +.B -XR1 :33 D	-XC30 :381 D	=H13 +.B -XR1 :33 B
		34	=H00/G2.7	=H11 +.B -XR1 :34 D	-XC30 :384 D	=H13 +.B -XR1 :34 B
		35	=H00/G2.7	=H11 +.B -XR1 :35 D	-XC30 :387 D	=H13 +.B -XR1 :35 B
		36	=H00/G2.7	=H11 +.B -XR1 :36 D	-XC30 :388 D	=H13 +.B -XR1 :36 B
		41	=H00/G8.6	=H11 +.B -XR1 :41 D		=H13 +.B -XR1 :41 B
		42	=H00/G8.6	=H11 +.B -XR1 :42 D		=H13 +.B -XR1 :42 B
		43	=H00/G8.6	=H09 +.B -XR2 :43 D		=H13 +.B -XR1 :43 B
		44	=H00/G8.6	=H11 +.B -XR1 :45 D	-XQ1 :131 D	
		45	=H00/G8.6		-XQ1 :132 D	=H13 +.B -XR1 :44 B
		46	=H00/G8.6	=H11 +.B -XR1 :46 D		=H13 +.B -XR1 :46 B

Screen bus	A Cable clamp		Cover
N-bus	B Screen bus		Insulation plate
PE-PEN-bus	C Screwed cable gland		Higher level insulation plate
Used cores total	D Plug housing		Test socket
Continued on sheet	E Insulated		Disconnector

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

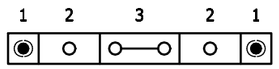
8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XR1
Connection table

=HZ01.1 V =H12 +.B /1

998574-000501 (3) W92210-L1965-S128-A Sheet 1+ 18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

1	2	3	4	5	6	7	8	9	10	11	12	13	14



1) Test socket
2) Jumper
3) Disconnecting link

Cable connection to termination A B

Terminal	Terminal block type	Wire type
111-262	URTK/SP	
110PE,210PE	URTKD/SP	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 20

Termination A Destination Item designation			Terminal strip Link	Term.-no.	Cross-ref.	Termination B Destination Item designation		
				-XT1				
	-XPE	:2 B		110PE	/S1.4			
+.F	-T1L1	:1S2		111	/S1.3	+.T	-F31-1	:A7
+.F	-T1L1	:1S1		112	/S1.3	+.T	-F31-1	:A1
+.F	-T1L2	:1S2		121	/S1.3			
+.F	-T1L2	:1S1		122	/S1.3	+.T	-F31-1	:A3
+.F	-T1L3	:1S2		131	/S1.4			
+.F	-T1L3	:1S1		132	/S1.4	+.T	-F31-1	:A5
	-XPE	:3 B	XX	210PE	/S2.5			
+.F	-T1L1	:2S2		211	/S2.3		-XT1	:241 A
+.F	-T1L1	:2S1		212	/S2.3	+.T	-P01	:E1
+.F	-T1L2	:2S2		221	/S2.3			
+.F	-T1L2	:2S1		222	/S2.3	+.T	-P01	:E3
+.F	-T1L3	:2S2		231	/S2.4			
+.F	-T1L3	:2S1		232	/S2.4	+.T	-P01	:E5
	-XT1	:211 B	XX	241	/S2.3			
+.T	-P01	:E2		242	/S2.3			
				251	/S2.3			
+.T	-P01	:E4		252	/S2.3			
				261	/S2.4			
+.T	-P01	:E6	XX	262	/S2.4			

Screen bus	→	A Cable clamp	Cover
N-bus		B Screen bus	Insulation plate
PE-PEN-bus		C Screwed cable gland	Higher level insulation plate
Used cores total		D Plug housing	Test socket
Continued on sheet		E Insulated	Disconnector

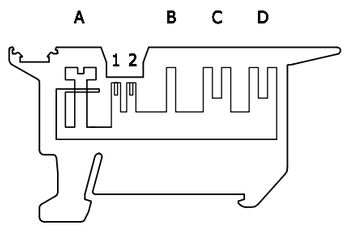
Revision	Modification	Date	Name			
				Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XT1
Connection table

=HZ01.1 V =H12
+.B /2
998574-000501 (3) W92210-L1965-S128-A
Sheet 2+ 18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal	Terminal block type	Wire type
301-583	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 184

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation				Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation			Termination D Destination Item designation		
				-XC30									
				1 2 JUMPER									
		-AQ1-X1.2	:9		301	/G1.5		+.T	-F31-2	:L1		-F20	:4
					302	/G1.5					+.T	-S20	:41
					303	/G1.5		+.T	-P01	:L/+	+.T	-F31-1	:D2
					304	/G1.5					+.T	-F31-1	:B7
=XX	+XX	-XX	:XX		305	/G1.5		+.T	-S20	:23			
					306	/G1.5			-XQ1	:133 D		-XQ0	:51 A
=PAS	+Panel	-XX	:XX		307	/G1.5			-K50	:43			
					308	/G1.5		+.T	-F31-2	:L3			
					309	/G1.5		+.T	-K30	:15			
					310	/G1.5			-F10	:11	+.T	-K32	:15
					311	/G1.5			-F10	:21		-F50	:31
					312	/M8.4			-XQ1	:890 C	+.T	-F31-2	:L7
=XX	+XX	-XX	:XX		313	/M5.5			-XC30	:582 D		-XQ1	:533 C
					314	/M5.5			-F151	:12			
					315	/M7.5			-K303	:13	+.T	-K33	:15
					316	/M9.3		+.T	-K32	:11			
					317	/M9.4		+.T	-K33	:11			
					318	/M9.6			-K302	:13			
					319	/M7.6		+.T	-F31-2	:L8	+.T	-K34	:15
		-AQ1-X1.2	:8		321	/G1.5		+.T	-F31-2	:L2		-F20	:2
					322	/G1.5					+.T	-S0E	:44
					323	/G1.5		+.T	-P01	:N/-		-K2	:34
					324	/G1.5						-XC30	:353 Y
					325	/G1.5		+.T	-F31-2	:L11		-AQ1-X1.4	:15
	+.T	-F31-1	:D14		326	/G1.5		+.T	-K30	:D2	+.T	-F31-3	:N11
					327	/G1.5			-K1	:A2	+.T	-K33	:D2
	+.T	-K32	:D2		328	/G1.5						-K1A	:A2
					329	/G1.5			-K40	:A2			
					330	/G1.5		+.T	-H0A	:X2		-K40	:E2
					331	/M7.3		+.T	-H30	:X2	+.T	-H0E	:X2
					332	/M7.6		+.T	-H50	:X2	+.T	-H60	:X2
					333	/M8.2			-K51	:A2		-K50	:A2
					334	/M8.4						-K52	:A2
					335	/M7.7			-K53	:A2	+.T	-H40	:X2
					336	/M8.7			-XQ0	:12 D	+.T	-K34	:D2
					337	/M9.4			-K302	:A2		-K302	:44
					339	/M1.8		+.T	-F31-1	:D5			
					340	/M1.4		+.T	-S0E	:13	+.T	-S20	:42
					341	/M1.5		+.T	-S0A	:13			
					342	/M1.6		+.T	-S20	:14		-K2	:13

Screen bus
N-bus
PE-PEN-bus
Used cores total
Continued on sheet

A Cable clamp — Cover
B Screen bus — Insulation plate
C Screwed cable gland — Higher level insulation plate
D Plug housing — Test socket
E Insulated — Disconnector

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H12 / V / / / 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:

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

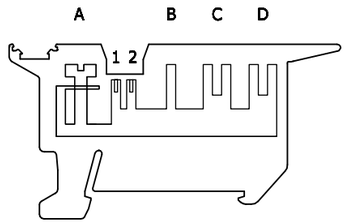
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XC30
Connection table

=HZ01.1 | V | =H12 | +.B | /3

998574-000501 | (3) W92210-L1965-S128-A | Sheet 3+ | 18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal: 301-583
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 184

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination — Item designation			
	+.T	-F31-1	:D3
	+.T	-F31-1	:D6
=XX	+XX	-XX	:XX
=XX	+XX	-XX	:XX
=XX	+XX	-XX	:XX
=XX	+XX	-XX	:XX
		-K1A	:14
		-K1E	:14
		-K5A	:14
		-K5E	:14

Terminal strip — -XC30

Link 1	Link 2	Link JUMPER	Term.-no.	Cross-ref.
⊖	■	□ • — —	343	/M1.6
⊖	■	□ • — —	344	/M1.4
⊖	■	□ • — —	345	/M1.6
⊖	■	□ • — —	347	/M1.6
⊖	■	□ • — —	348	/M1.8
⊖	■	□ • — —	349	/M2.3
⊖	■	□ • — —	350	/M2.6
⊖	□	□ • — —	351	/M1.1
⊖	■	□ • — —	352	/M1.1
⊖	□	□ • — —	353	/M1.7
⊖	□	□ • — —	355	/M1.6
⊖	□	□ • — —	356	/M3.3
⊖	□	□ • — —	357	/M6.1
⊖	□	□ • — —	358	/M6.2
⊖	□	□ • — —	359	/M6.3
⊖	■	□ • — —	360	/M10.2
⊖	■	□ • — —	361	/M10.3
⊖	■	□ • — —	362	/M10.3
⊖	■	□ • — —	363	/M10.4
⊖	□	■ • — —	364	/M10.2
⊖	□	■ • — —	365	/M10.3
⊖	□	■ • — —	366	/M10.3
⊖	□	■ • — —	367	/M10.4
⊖	□	□ • — —	368	/M8.2
⊖	□	□ • — —	369	/M8.3
⊖	□	□ • — —	370	/M8.4
⊖	□	□ • — —	371	/M3.2
⊖	□	□ • — —	372	/M3.3
⊖	□	□ • — —	373	/M3.4
⊖	□	□ • — —	374	/M3.4
⊖	□	□ • — —	375	/M5.4
⊖	□	□ • — —	376	/M5.2
⊖	□	□ • — —	377	/M5.2
⊖	□	□ • — —	378	/M5.3
⊖	□	□ • — —	379	/M5.6
⊖	□	□ • — —	380	/M5.6
⊖	■	□ • — —	381	/M10.5
⊖	■	□ • — —	382	/M10.5
⊖	■	□ • — —	384	/M10.5
⊖	■	□ • — —	385	/M10.5

Slot B Destination — Item designation			

Termination C Destination — Item designation			
+.T	-F31-2	:L12	
	-XQ1	:522 D	
+.T	-F31-1	:D1	
+.T	-S0A	:14	
+.T	-F31-1	:B8	
+.T	-K32	:10	
+.T	-K33	:10	
+.T	-F31-1	:B10	
+.T	-K30	:19	
+.T	-K32	:20	
+.T	-K33	:20	
+.T	-K34	:20	
	-K50	:A1	
	-K51	:A1	
+.T	-F31-2	:L10	
+.T	-F31-3	:M2	
+.T	-F31-3	:M3	
+.T	-F31-3	:M4	
+.T	-F31-3	:M5	
	-F50	:11	
	-K50	:44	
	-K51	:44	
	-K53	:44	
	-F151	:11	
	-K50	:13	
	-F20	:11	
	-K50	:14	
	-F20	:12	

Termination D Destination — Item designation			
	-K1	:13	
+.T	-S0E	:14	
	-K2	:14	
	-K1	:14	
	-XQ0	:20 D	
+.T	-K30	:10	
+.T	-K34	:10	
+.T	-K30	:2	
	-XQ1	:814 C	
	-K2	:33	
	-XQ0	:18 D	
	-K1A	:13	
+.T	-K30	:D1	
+.T	-K33	:D1	
+.T	-K32	:D1	
	-XR1	:31 C	
+.T	-K32	:19	
+.T	-K33	:19	
+.T	-K34	:19	
+.T	-K30	:20	
	-XR1	:32 C	
	-F10	:22	
	-F50	:42	
	-K52	:A1	
	-AQ1-X1.3	:11	
	-AQ1-X1.3	:10	
	-AQ1-X1.3	:13	
	-AQ1-X1.3	:12	
+.T	-F31-1	:D10	
+.T	-F31-1	:D7	
+.T	-F31-1	:D8	
+.T	-F31-1	:D9	
+.T	-F31-1	:D12	
+.T	-F31-1	:D13	
	-XR1	:33 C	
	-K51	:13	
	-XR1	:34 C	
	-K51	:14	

Screen bus	→
N-bus	
PE-PEN-bus	
Used cores total	
Continued on sheet	

A	Cable clamp		Cover
B	Screen bus		Insulation plate
C	Screwed cable gland		Higher level insulation plate
D	Plug housing		Test socket
E	Insulated		Disconnector

Revision	Modification	Date	Name
A	change PCMI II	29.04.21	HE

Date	07.04.2021
Drawn	Herrmann
Appr.	Jacobi
Norm	

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION
Orig./Prep.for/Prep.by

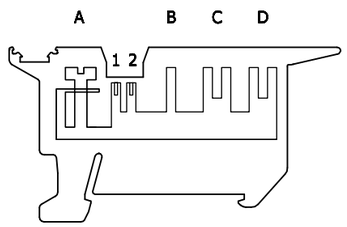
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XC30
Connection table

=HZ01.1 | V | =H12 | +.B | /4

998574-000501 | (3) W92210-L1965-S128-A | Sheet 4+ | 18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal	Terminal block type	Wire type
301-583	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 184

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XC30					
	1 2 JUMPER					
		387	/M10.7		-K52 :13	-XR1 :35 C
		388	/M10.7		-K52 :14	-XR1 :36 C
		389	/M11.2		-K53 :33	-XR1 :15 C
		390	/M11.2		-K53 :34	-XR1 :16 C
		391	/M12.3		+.T -K32 :13	-XQ0 :82 C
		392	/M12.4		+.T -K33 :13	
		393	/M12.4		+.T -K34 :13	
		394	/M12.2			+.T -K30 :14
		395	/M12.3		+.T -K32 :14	
		396	/M12.4		+.T -K33 :14	
		397	/M2.8		+.T -K34 :14	+.T -F31-3 :N3
		399	/M5.7			
		400	/M16.2			+.T -K30 :3
		401	/M16.2			+.T -K30 :5
		402	/M16.2			+.T -K30 :21
		403	/M16.2			+.T -K30 :23
		404	/M16.3			+.T -K32 :3
		405	/M16.4			+.T -K32 :5
		406	/M16.4			+.T -K32 :25
		407	/M16.4			+.T -K32 :23
		408	/M16.5			+.T -K33 :3
		409	/M16.5			+.T -K33 :5
		410	/M16.6			+.T -K33 :21
		411	/M16.6			+.T -K33 :23
		412	/M16.7			+.T -K34 :3
		413	/M16.7			+.T -K34 :5
		414	/M16.7			+.T -K34 :21
		415	/M16.7			+.T -K34 :23
		420	/M16.2			+.T -K30 :4
		421	/M16.2			+.T -K30 :6
		422	/M16.2			+.T -K30 :22
		423	/M16.2			+.T -K30 :24
		424	/M16.3			+.T -K32 :4
		425	/M16.4			+.T -K32 :6
		426	/M16.4			+.T -K32 :26
		427	/M16.4			+.T -K32 :24
		428	/M16.5			+.T -K33 :4
		429	/M16.5			+.T -K33 :6
		430	/M16.6			+.T -K33 :22
		431	/M16.6			+.T -K33 :24

Screen bus	A Cable clamp	Cover
N-bus	B Screen bus	Insulation plate
PE-PEN-bus	C Screwed cable gland	Higher level insulation plate
Used cores total	D Plug housing	Test socket
Continued on sheet	E Insulated	Disconnector

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H12 / V / / / 5

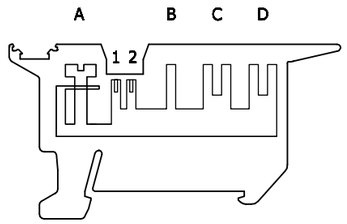
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		=H12+.B-XC30
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Connection table

=HZ01.1	V	=H12			
		+.B		/5	
998574-000501	(3) W92210-L1965-S128-A			Sheet 5+	
				18 Sh.	

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal: 301-583
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 184

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XC30					
	1 2 JUMPER					
		432	/M16.7			+.T -K34 :4
		433	/M16.7			+.T -K34 :6
		434	/M16.7			+.T -K34 :22
		435	/M16.7			+.T -K34 :24
		452	/M14.3			-K40 :13
		453	/M14.3			-K40 :21
		454	/M14.4			-K40 :31
		455	/M14.4			-K40 :43
		456	/M14.5			-K40 :53
		457	/M14.5			-K40 :61
		458	/M14.5			-K40 :71
		459	/M14.6			-K40 :83
		460	/M14.3			-K40 :14
		461	/M14.3			-K40 :22
		462	/M14.4			-K40 :32
		463	/M14.4			-K40 :44
		464	/M14.5			-K40 :54
		465	/M14.5			-K40 :62
		466	/M14.5			-K40 :72
		467	/M14.6			-K40 :84
=PAS +Panel -XX :XX		468	/M6.5			-K1 :A1
=PAS +Panel -XX :XX		469	/M6.6			-K2 :A1
		470	/M13.1			+.T -P01 :G1
		471	/M13.2			+.T -P01 :G2
		472	/M13.2			+.T -P01 :G3
		473	/M13.3			
		474	/M13.4			+.T -F31-3 :M7
		475	/M13.4			+.T -F31-3 :M8
		476	/M13.4			+.T -F31-3 :M9
		477	/M13.5			+.T -F31-3 :M10
		478	/M13.5			+.T -F31-1 :B12
		479	/M13.5			+.T -F31-1 :B13
		480	/M13.5			+.T -F31-1 :B14
		481	/M13.6			-K303 :34
		482	/M13.6			-K303 :33
		483	/M13.7			-K50 :34
		484	/M13.7			-K50 :33
		485	/M13.7			-K51 :34
		486	/M13.7			-K51 :33
		487	/M13.7			-K52 :34

Screen bus	→
N-bus	
PE-PEN-bus	
Used cores total	
Continued on sheet	

A	Cable clamp		Cover
B	Screen bus		Insulation plate
C	Screwed cable gland		Higher level insulation plate
D	Plug housing		Test socket
E	Insulated		Disconnector

Revision	Modification	Date	Name
A	change PCMI II	29.04.21	HE

Date 07.04.2021
Drawn Herrmann
Appr. Jacobi
Norm

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION
Orig./Prep.for/Prep.by

Siemens AG

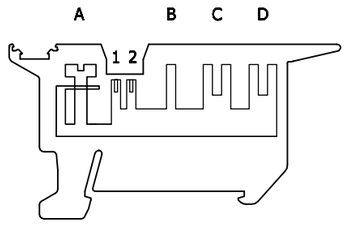
8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XC30
Connection table

=HZ01.1 V =H12 +.B /6

998574-000501 (3) W92210-L1965-S128-A Sheet 6+ 18 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H12 / V / / / 7

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal: 301-583
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 184

Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination — Item designation				Terminal strip: Link	Term.-no.	Cross-ref.	Slot B Destination — Item designation	Termination C Destination — Item designation	Termination D Destination — Item designation
				-XC30					
				1 2 JUMPER					
					488	/M13.7			-K52 :33
					489	/M13.8			-K53 :14
					490	/M13.8			-K53 :13
=PAS	+Panel	-XX	:XX		491	/M6.6			-K1A :A1
=PAS	+Panel	-XX	:XX		492	/M6.7			-K1E :A1
=PAS	+Panel	-XX	:XX		493	/M6.8			-K5A :A1
=PAS	+Panel	-XX	:XX		494	/M6.8			-K5E :A1
=XX	+XX	-XX	:XX		495	/M6.4			+.T -K32 :21
=XX	+XX	-XX	:XX		496	/M6.4			+.T -K32 :22
					500	/M7.4		+.T -H30 :X1	+.T -K30 :16
					502	/M7.5			+.T -K32 :16
					504	/M7.5			+.T -K33 :16
					505	/M7.6		+.T -K34 :16	
					506	/M7.6		+.T -F31-2 :L5	+.T -H60 :X1
					507	/M7.7		-F10 :12	+.T -H40 :X1
					508	/M7.8		-F50 :32	+.T -H50 :X1
					510	/M9.4			+.T -K32 :12
					512	/M9.4		-K302 :A1	+.T -K33 :12
=XX	+XX	-XX	:XX		520	/M9.6		-K302 :21	-V61 :1
=XX	+XX	-XX	:XX		521	/M9.6		-V61 :4	-K303 :A2
					560	/M12.8			-XQ0 :33 C
					561	/M12.8			-XQ0 :34 C
=H15	+.B	-XC30	:560 A		582	=H00/G13.6		-F50 :12	-XC30 :313 C
=H15	+.B	-XC30	:561 A		583	=H00/G13.6			+.T -F31-1 :D11

Screen bus	→	A Cable clamp	Cover
N-bus		B Screen bus	Insulation plate
PE-PEN-bus		C Screwed cable gland	Higher level insulation plate
Used cores total		D Plug housing	Test socket
Continued on sheet		E Insulated	Disconnector

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

Revision	Modification	Date	Name
A	change PCMI II	29.04.21	HE

Date 07.04.2021
Drawn Herrmann
Appr. Jacobi
Norm

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION
Orig./Prep.for/Prep.by

Siemens AG

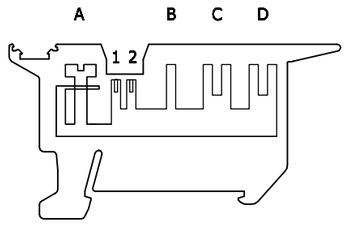
8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XC30
Connection table

=HZ01.1 V =H12
+.B /7

998574-000501 (3) W92210-L1965-S128-A

Sheet 7+
18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal: 11-124
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 60

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XQ0					
	1 2 JUMPER					
		11	/M8.7	+.L -Q0-X09 :1		-XQ1 :534 D
		12	/M8.7	+.L -Q0-X09 :0		-XC30 :336 C
		13	/M2.2	+.L -Q0-X10 :3		-XQ0 :21 D
		14	/M2.2	+.L -Q0-X10 :2		
		15	/Z1.4	+.L -Q0-X10 :1		
		16	/Z1.4	+.L -Q0-X10 :0		
		17	/M1.5	+.L -Q0-X11 :9		-XQ1 :531 D
		18	/M1.5	+.L -Q0-X11 :8	+.T -S0E :43	-XC30 :355 D
		19	/Z1.2	+.L -Q0-X11 :7		
		20	/M2.2	+.L -Q0-X11 :6	+.T -F31-3 :N2	-XC30 :348 D
		21	/M2.2	+.L -Q0-X11 :5		-XQ0 :13 D
		22	/M2.3	+.L -Q0-X11 :4		-XQ0 :93 C
		23	/M4.8	+.L -Q0-X11 :3	-XQ1 :811 D	
		24	/M4.8	+.L -Q0-X11 :2		+.T -F31-3 :N15
		25	/Z1.5	+.L -Q0-X11 :1		
		26	/Z1.5	+.L -Q0-X11 :0		
		27	/G1.2	+.L -Q0-X12 :9		-F10 :4
		28	/G1.2	+.L -Q0-X12 :8		-F10 :2
		29	/M15.6	+.L -Q0-X12 :7		
		30	/M15.6	+.L -Q0-X12 :6		
		31	/M3.8	+.L -Q0-X12 :5		-XQ1 :818 D
		32	/M3.8	+.L -Q0-X12 :4		-AQ1-X1.4 :14
		33	/M12.8	+.L -Q0-X12 :3	-XC30 :560 D	
		34	/M12.8	+.L -Q0-X12 :2	-XC30 :561 D	
		41	/M7.3	+.L -Q0-X12 :1		-XQ0 :61 C
		42	/M7.3	+.L -Q0-X12 :0		+.T -H0A :X1
		43	/M7.3	+.L -Q0-X13 :9		
		44	/M7.3	+.L -Q0-X13 :8		+.T -H0E :X1
		45	/Z1.3	+.L -Q0-X13 :7		
		46	/Z1.4	+.L -Q0-X13 :6		
-XC30 :306 D		51	/M4.4	+.L -Q0-X13 :5	+.T -K34 :17	-XQ1 :111 C
		52	/M4.4	+.L -Q0-X13 :4		+.T -F31-3 :N7
		54	/M4.5	+.L -Q0-X13 :3		+.T -F31-3 :N8
		61	/M7.2	+.L -Q0-X13 :2	-XQ0 :41 D	
		62	/M7.2	+.L -Q0-X13 :1		-K40 :E1
		64	/M7.2	+.L -Q0-X13 :0		-K40 :A1
		71	/M12.1	+.L -Q0-X14 :9		
		72	/M12.1	+.L -Q0-X14 :8		
		73	/M12.2	+.L -Q0-X14 :7		
		74	/M12.2	+.L -Q0-X14 :6		

Screen bus	→	A Cable clamp	Cover
N-bus		B Screen bus	Insulation plate
PE-PEN-bus		C Screwed cable gland	Higher level insulation plate
Used cores total		D Plug housing	Test socket
Continued on sheet		E Insulated	Disconnector

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

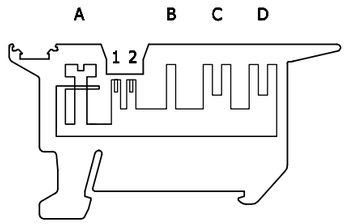
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XQ0
Connection table

=HZ01.1 V =H12
+.B /8
998574-000501 (3) W92210-L1965-S128-A
Sheet 8+ 18 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H12 / V / / / 9

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal: 11-124
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 60

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XQ0					
	1 2 JUMPER					
		81	/M12.2	+.L -Q0-X14 :5		
		82	/M12.2	+.L -Q0-X14 :4	-XC30 :391 D	+.T -K30 :13
		83	/M9.2	+.L -Q0-X14 :3		-K303 :14
		84	/M9.2	+.L -Q0-X14 :2		+.T -K34 :D1
		91	/Z1.7	+.L -Q0-X14 :1		
		92	/M2.3	+.L -Q0-X14 :0		+.T -F31-3 :N1
		93	/M2.3	+.L -Q0-X15 :9	-XQ0 :22 D	
		94	/M15.3	+.L -Q0-X15 :8		
		101	/M15.4	+.L -Q0-X15 :7		
		102	/M15.4	+.L -Q0-X15 :6		
		103	/M15.4	+.L -Q0-X15 :5		
		104	/M15.4	+.L -Q0-X15 :4		
		111	/M15.4	+.L -Q0-X15 :3		
		112	/M15.4	+.L -Q0-X15 :2		
		113	/M15.5	+.L -Q0-X15 :1		
		114	/M15.5	+.L -Q0-X15 :0		
		121	/M15.5	+.L -Q0-X16 :1		
		122	/M15.5	+.L -Q0-X16 :0		
		123	/M15.5	+.L -Q0-X17 :1		
		124	/M15.5	+.L -Q0-X17 :0		

Screen bus	→
N-bus	
PE-PEN-bus	
Used cores total	
Continued on sheet	

A	Cable clamp		Cover
B	Screen bus		Insulation plate
C	Screwed cable gland		Higher level insulation plate
D	Plug housing		Test socket
E	Insulated		Disconnector

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:

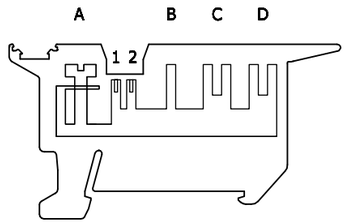
Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XQ0
Connection table

=HZ01.1 V =H12
+.B /9
998574-000501 (3) W92210-L1965-S128-A Sheet 9+ 18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal: 101-893
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 66

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XQ1					
	1 2 JUMPER					
		101	/G1.3	+.D -Q1-X1 :1		-AQ1-X1.1 :4
		102	/G1.3	+.D -Q1-X1 :0		-AQ1-X1.1 :3
		111	/M4.5	+.D -Q1-X11 :9	-XQ0 :51 D	-XQ1 :511 D
		112	/M4.5	+.D -Q1-X11 :8		+.T -F31-3 :N9
		114	/M4.6	+.D -Q1-X11 :7		+.T -F31-3 :N10
		121	/M1.2	+.D -Q1-X11 :6		+.T -K32 :1
		122	/M1.2	+.D -Q1-X11 :5	-XQ1 :124 D	-XQ1 :521 D
		124	/M1.3	+.D -Q1-X11 :4		-XQ1 :122 C
		131	/M11.6	+.D -Q1-X11 :3		-XR1 :44 C
		132	/M11.6	+.D -Q1-X11 :2		-XR1 :45 C
		133	/M3.5	+.D -Q1-X11 :1	-XQ1 :541 D	-XC30 :306 C
		134	/M3.5	+.D -Q1-X11 :0		-AQ1-X1.2 :6
		141	/M3.6	+.D -Q1-X12 :3		-XQ1 :542 D
		142	/M3.6	+.D -Q1-X12 :2		-AQ1-X1.2 :5
		143	/M17.2	+.D -Q1-X12 :1		
		144	/M17.2	+.D -Q1-X12 :0		
		151	/M12.5	+.D -Q1-X13 :3		
		152	/M12.5	+.D -Q1-X13 :2		
		153	/M12.6	+.D -Q1-X13 :1		
		154	/M12.6	+.D -Q1-X13 :0		
		161	/M17.2	+.D -Q1-X14 :3		
		162	/M17.2	+.D -Q1-X14 :2		
		163	/M17.2	+.D -Q1-X14 :1		
		164	/M17.3	+.D -Q1-X14 :0		
		171	/M17.3	+.D -Q1-X15 :3		
		172	/M17.3	+.D -Q1-X15 :2		
		173	/M17.3	+.D -Q1-X15 :1		
		174	/M17.3	+.D -Q1-X15 :0		
		511	/M4.7	+.D -Q1-X51 :9	-XQ1 :811 C	-XQ1 :111 D
		512	/M4.7	+.D -Q1-X51 :8		+.T -F31-3 :N12
		514	/M4.7	+.D -Q1-X51 :7		+.T -F31-3 :N13
		521	/M1.2	+.D -Q1-X51 :6		-XQ1 :122 D
		522	/M1.2	+.D -Q1-X51 :5	-XQ1 :524 D	-XC30 :344 C
		524	/M1.3	+.D -Q1-X51 :4		-XQ1 :522 C
		531	/M1.4	+.D -Q1-X51 :3		-XQ0 :17 D
		532	/M1.4	+.D -Q1-X51 :2		-AQ1-X1.4 :17
		533	/M8.7	+.D -Q1-X51 :1	-XC30 :313 D	+.D -Q1-X51 :1
		534	/M8.7	+.D -Q1-X51 :0		-XQ0 :11 D
		541	/M3.6	+.D -Q1-X52 :3		-XQ1 :133 C
		542	/M3.6	+.D -Q1-X52 :2		-XQ1 :141 D

Screen bus	→	A Cable clamp	Cover
N-bus		B Screen bus	Insulation plate
PE-PEN-bus		C Screwed cable gland	Higher level insulation plate
Used cores total		D Plug housing	Test socket
Continued on sheet		E Insulated	Disconnector

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

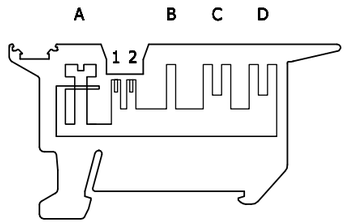
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XQ1
Connection table

=HZ01.1 V =H12
+.B /10
998574-000501 (3) W92210-L1965-S128-A
Sheet 10+ 18 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H12 / V / / / 11
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:

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal	Terminal block type	Wire type
101-893	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 66

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XQ1					
	1 2 JUMPER					
		543	/M3.7	+.D -Q1-X52 :1		-XQ1 :817 D
		544	/M3.7	+.D -Q1-X52 :0		-AQ1-X1.2 :7
		551	/M12.6	+.D -Q1-X53 :3		
		552	/M12.6	+.D -Q1-X53 :2		
		553	/M12.7	+.D -Q1-X53 :1		
		554	/M12.7	+.D -Q1-X53 :0		
		561	/M17.6	+.D -Q1-X54 :3		
		562	/M17.6	+.D -Q1-X54 :2		
		563	/M17.6	+.D -Q1-X54 :1		
		564	/M17.6	+.D -Q1-X54 :0		
		571	/M17.6	+.D -Q1-X55 :3		
		572	/M17.6	+.D -Q1-X55 :2		
		573	/M17.7	+.D -Q1-X55 :1		
		574	/M17.7	+.D -Q1-X55 :0		
		811	/M4.8	+.D -Q1-X81 :3	-XQ1 :511 C	-XQ0 :23 C
		812	/M4.8	+.D -Q1-X81 :2		+.T -F31-3 :N14
		813	/M1.2	+.D -Q1-X81 :1		-AQ1-X1.4 :16
		814	/M1.2	+.D -Q1-X81 :0	-XC30 :352 D	
		815	/Z2.6	+.D -Q1-X82 :3		
		816	/Z2.6	+.D -Q1-X82 :2		
		817	/M3.8	+.D -Q1-X82 :1		-XQ1 :543 D
		818	/M3.8	+.D -Q1-X82 :0		-XQ0 :31 D
		890	/M8.5	+.D -B0-X88 :3	-XC30 :312 C	
		891	/M8.5	+.D -B0-X88 :2	-XQ1 :892 C	-K53 :A1
		892	/M8.5	+.D -B0-X88 :1	-XQ1 :891 C	
		893	/Z4.3	+.D -B0-X88 :0		

Screen bus	→	A Cable clamp	Cover
N-bus		B Screen bus	Insulation plate
PE-PEN-bus		C Screwed cable gland	Higher level insulation plate
Used cores total		D Plug housing	Test socket
Continued on sheet		E Insulated	Disconnector

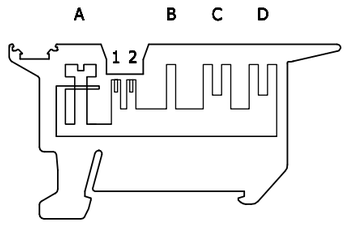
Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XQ1
Connection table

=HZ01.1 V =H12
+.B /11
998574-000501 (3) W92210-L1965-S128-A
Sheet 11+
18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal	Terminal block type	Wire type
111-818	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 56

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XQ61					
	1 2 JUMPER					
		111	/M5.2	+.F -Q61-X11 :0	-XC30 :307 C	-XQ61 :511 D
		112	/M5.2	+.F -Q61-X11 :1		+.T -F31-1 :D4
		114	/M5.2	+.F -Q61-X11 :2		+.T -F31-1 :D7
		121	/M18.6	+.F -Q61-X11 :3		
		122	/M18.6	+.F -Q61-X11 :4		
		124	/M18.6	+.F -Q61-X11 :5		
		131	/M18.2	+.F -Q61-X11 :6		
		132	/M18.2	+.F -Q61-X11 :7		
		133	/M18.2	+.F -Q61-X11 :8		
		134	/M18.2	+.F -Q61-X11 :9		
		141	/M18.3	+.F -Q61-X12 :0		
		142	/M18.3	+.F -Q61-X12 :1		
		143	/M18.3	+.F -Q61-X12 :2		
		144	/M18.3	+.F -Q61-X12 :3		
		151	/M18.4	+.F -Q61-X13 :0		
		152	/M18.4	+.F -Q61-X13 :1		
		153	/M18.4	+.F -Q61-X13 :2		
		154	/M18.4	+.F -Q61-X13 :3		
		161	/M18.4	+.F -Q61-X14 :0		
		162	/M18.4	+.F -Q61-X14 :1		
		163	/M18.5	+.F -Q61-X14 :2		
		164	/M18.5	+.F -Q61-X14 :3		
		171	/M18.5	+.F -Q61-X15 :0		
		172	/M18.5	+.F -Q61-X15 :1		
		173	/M18.6	+.F -Q61-X15 :2		
		174	/M18.6	+.F -Q61-X15 :3		
		511	/M5.3	+.F -Q61-X51 :0	-XQ61 :815 D	-XQ61 :111 D
		512	/M5.3	+.F -Q61-X51 :1		+.T -F31-1 :D8
		514	/M5.4	+.F -Q61-X51 :2		+.T -F31-1 :D9
		521	/M17.6	+.F -Q61-X51 :3		
		522	/M17.6	+.F -Q61-X51 :4		
		524	/M17.6	+.F -Q61-X51 :5		
		531	/M17.2	+.F -Q61-X51 :6		
		532	/M17.2	+.F -Q61-X51 :7		
		533	/M17.2	+.F -Q61-X51 :8		
		534	/M17.2	+.F -Q61-X51 :9		
		541	/M17.3	+.F -Q61-X52 :0		
		542	/M17.3	+.F -Q61-X52 :1		
		543	/M17.3	+.F -Q61-X52 :2		
		544	/M17.3	+.F -Q61-X52 :3		

Screen bus	→	A Cable clamp	Cover
N-bus		B Screen bus	Insulation plate
PE-PEN-bus		C Screwed cable gland	Higher level insulation plate
Used cores total		D Plug housing	Test socket
Continued on sheet		E Insulated	Disconnector

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

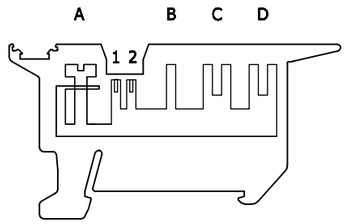
8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XQ61
Connection table

=HZ01.1 V =H12 /12
+.B

998574-000501 (3) W92210-L1965-S128-A

Sheet 12+ 18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal: 111-818
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 56

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XQ61					
	1 2 JUMPER					
		551	/M17.4	+.F -Q61-X53 :0		
		552	/M17.4	+.F -Q61-X53 :1		
		553	/M17.4	+.F -Q61-X53 :2		
		554	/M17.4	+.F -Q61-X53 :3		
		561	/M17.4	+.F -Q61-X54 :0		
		562	/M17.4	+.F -Q61-X54 :1		
		563	/M17.5	+.F -Q61-X54 :2		
		564	/M17.5	+.F -Q61-X54 :3		
		571	/M17.5	+.F -Q61-X55 :0		
		572	/M17.5	+.F -Q61-X55 :1		
		573	/M17.6	+.F -Q61-X55 :2		
		574	/M17.6	+.F -Q61-X55 :3		
		815	/M5.4	+.F -Q61-X82 :0		-XQ61 :511 C
		816	/M5.4	+.F -Q61-X82 :1		+.T -F31-1 :D10
		817	/M18.7	+.F -Q61-X82 :2		
		818	/M18.7	+.F -Q61-X82 :3		

Screen bus	→
N-bus	
PE-PEN-bus	
Used cores total	
Continued on sheet	

A	Cable clamp		Cover
B	Screen bus		Insulation plate
C	Screwed cable gland		Higher level insulation plate
D	Plug housing		Test socket
E	Insulated		Disconnector

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

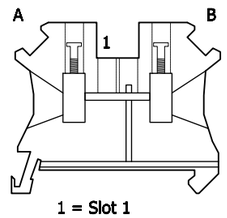
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XQ61
Connection table

=HZ01.1 V =H12
+.B /13
998574-000501 (3) W92210-L1965-S128-A
Sheet 13+ 18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15



1 = Slot 1

Cable connection to termination A B

Terminal	Terminal block type	Wire type
2-8	UT4-PE	
1	UT6-PE	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 8

Termination A Destination Item designation	Terminal strip -XPE 1 2 JUMPER Link	Term.-no.	Cross-ref.	Termination B Destination Item designation
=H12 +.BPE	○□□ ○	1	/S5.8	
=H12 +.BPE	○□□ ○	2	/S1.4	-XT1 :110PE A
	○□□ ○	3	/S2.5	-XT1 :210PE A
	○□□ ○	4	/S2.4	+.T -P01 :PE
	○□□ ○	5	/S3.1	-XT5A :503PE A
	○□□ ○	6	/S5.8	
	○□□ ○	7	/S5.8	
	○□□ ○	8	/S5.8	

Screen bus	A Cable clamp	Cover
N-bus	B Screen bus	Insulation plate
PE-PEN-bus	C Screwed cable gland	Higher level insulation plate
Used cores total	D Plug housing	Test socket
Continued on sheet	E Insulated	Disconnector

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

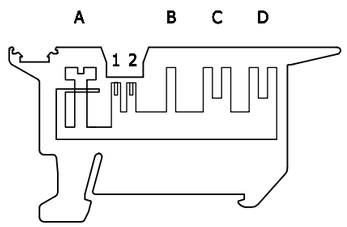
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XPE
Connection table

=HZ01.1 V =H12 +.B /14

998574-000501 (3) W92210-L1965-S128-A Sheet 14+ 18 Sh.

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal	Terminal block type	Wire type
550-553	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 4

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation		Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
		-XT15					
		1 2 JUMPER					
-F151	:2		550	/S4.2			
-F151	:3		551	/S4.2			
-F151	:4		552	/S4.3			-XT :104 B
-F151	:6		553	/S4.3			-XT :105 B

Screen bus	→	A Cable clamp	Cover
N-bus		B Screen bus	Insulation plate
PE-PEN-bus		C Screwed cable gland	Higher level insulation plate
Used cores total		D Plug housing	Test socket
Continued on sheet		E Insulated	Disconnector

Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H12 / V / / / 15

Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

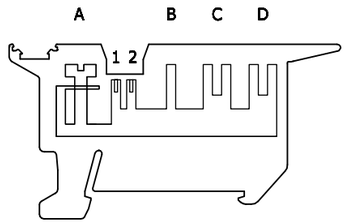
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XT15
Connection table

=HZ01.1	V	=H12		
		+.B		/15
998574-000501	(3) W92210-L1965-S128-A			Sheet 15+ 18 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H12 / V / / / 16

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				



1 = Slot 1
2 = Slot 2

Terminal: 501-520
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 11

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination – Item designation				Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination – Item designation		Termination C Destination – Item designation		Termination D Destination – Item designation	
		-F50	:1	-XT5	501	/S3.2	-XT5A	:501 A	-F51	:1		
		-F50	:3	1 2 JUMPER	504	/S3.2	-XT5A	:504 A	-F51	:3		
		-F50	:5		507	/S3.3	-XT5A	:507 A	-F51	:5		
		-F50	:2		511	/S3.2			-XT	:108 B	-XT	:100 B
=EXT	+EXT	-XX	:XX		512	/S3.6					-F51	:2
		-F50	:4		513	/S3.2			-XT	:109 B	-XT	:101 B
=EXT	+EXT	-XX	:XX		514	/S3.7					-F51	:4
		-F50	:6		515	/S3.3			-XT	:110 B	-XT	:102 B
=EXT	+EXT	-XX	:XX		516	/S3.8					-F51	:6
					519	/S3.3	-XT5A	:509PE A	-XT	:103 B		
=EXT	+EXT	-XX	:XX		520	/S3.5					-XT	:111 B

Screen bus	→
N-bus	
PE-PEN-bus	
Used cores total	
Continued on sheet	

A	Cable clamp		Cover
B	Screen bus		Insulation plate
C	Screwed cable gland		Higher level insulation plate
D	Plug housing		Test socket
E	Insulated		Disconnector

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:

Revision	Modification	Date	Name
A	change PCMI II	29.04.21	HE

Date 07.04.2021
Drawn Herrmann
Appr. Jacobi
Norm

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION
Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XT5
Connection table

=HZ01.1 V =H12
+.B /16
998574-000501 (3) W92210-L1965-S128-A
Sheet 16+ 18 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-11-PT4
Archive: =H12 / V / / / 17
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:

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				

1 2 3 2 1

1) Test socket
2) Jumper
3) Disconnecting link

Cable connection to termination

A B

Terminal	Terminal block type	Wire type
501 - 587	PT 4/1P	
503PE,506PE,509PE	PT 4/1P-PE	
533PE,536PE,539PE	PT 4/1P-PE	
589PE	PT 4/1P-PE	
590PE	PT 4-PE	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 20

-XT5A

1 2 JUMPER

Termination A Destination Item designation		Term.-no.	Cross-ref.	Slot B Destination Item designation	
-XT5	:501 B	501	/S3.2	-XL1A	:1a
-XPE	:5 B	503PE	/S3.2	-XL1A	:1n
-XT5	:504 B	504	/S3.2	-XL2A	:1a
		506PE	/S3.2	-XL2A	:1n
-XT5	:507 B	507	/S3.3	-XL3A	:1a
-XT5	:519 B	509PE	/S3.3	-XL3A	:1n
		531	/S3.4	-XL1B	:2a
		533PE	/S3.5	-XL1B	:2n
		534	/S3.5	-XL2B	:2a
		536PE	/S3.5	-XL2B	:2n
		537	/S3.6	-XL3B	:2a
		539PE	/S3.6	-XL3B	:2n
		580	/S3.7		
		581	/S3.7	-XL1C	:da
		583	/S3.7	-XL1C	:dn
		584	/S3.7	-XL2C	:da
		586	/S3.8	-XL2C	:dn
		587	/S3.8	-XL3C	:da
		589PE	/S3.8	-XL3C	:dn
		590PE	/S3.8		

Screen bus
N-bus
PE-PEN-bus
Used cores total
Continued on sheet

A Cable clamp
B Screen bus
C Screwed cable gland
D Plug housing
E Insulated

Cover
Higher level insulation plate
Test socket
Plug-in bridge

Revision	Modification	Date	Name			
				Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

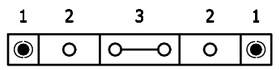
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
Incoming Feeder
=H12+.B-XT5A
Connection table

=HZ01.1 V =H12 +.B /17

998574-000501 (3) W92210-L1965-S128-A

	Cable designation	Type, no.of cores, cross sec.	Destination, equipment code	Level
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				



1) Test socket
2) Jumper
3) Disconnecting link

Cable connection to termination A B

Terminal: 100-111
Terminal block type: URTK/SP
Wire type:
FOR DETAILS SEE CIRCUIT DIAGRAM
No. of Terminals (in total) : 10

Termination A Destination Item designation			Terminal strip Link	Term.-no.	Cross-ref.	Termination B Destination Item designation	
			-XT				
+.T	-F31-1	:B1		100	/S3.2	-XT5	:511 D
+.T	-F31-1	:B3		101	/S3.2	-XT5	:513 D
+.T	-F31-1	:B4		102	/S3.3	-XT5	:515 D
+.T	-F31-1	:B2		103	/S3.3	-XT5	:519 C
+.T	-F31-1	:B5		104	/S4.3	-XT15	:552 D
+.T	-F31-1	:B6		105	/S4.3	-XT15	:553 D
+.T	-P01	:F1		108	/S3.4	-XT5	:511 C
+.T	-P01	:F2		109	/S3.4	-XT5	:513 C
+.T	-P01	:F3		110	/S3.5	-XT5	:515 C
+.T	-P01	:F4		111	/S3.5	-XT5	:520 D

Screen bus		A Cable clamp		Cover	
N-bus		B Screen bus		Insulation plate	
PE-PEN-bus		C Screwed cable gland		Higher level insulation plate	
Used cores total		D Plug housing		Test socket	
Continued on sheet		E Insulated		Disconnector	

1	2	3	4	5	6	7	8	9	10	11	12	13	14

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBKLP2-11_I
Archive: =H12 / V / / / 18

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:

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ01.1 V =H12
				Drawn	Herrmann	Siemens Limited (Taipei)		Incoming Feeder	+.B /18
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		=H12+.B-XT	
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Connection table	998574-000501 (3) W92210-L1965-S128-A Sheet 18-18 Sh.