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
FEEDER w. BB VT
OUTGOING FEEDER

Typical =HZ02.3.1

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

Archive: =H05 / A / / / 1

Project: 998574-000501

Documentation identifier A / =H05 / / 1

Manufacturer document number (3) W92210-L1965-U051-A

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBINH2
Archive: =H05 / 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	=H05 +H05	/1	(3) W92210-L1965-U051	1-	1	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT Cover sheet	EM MS O GIS SWF PR OP SEN FFM
A	=H05 +H05	A1	(3) W92210-L1965-L052	1+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H05 +H05	A2	(3) W92210-L1965-L052	2+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H05 +H05	A3	(3) W92210-L1965-L052	3+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H05 +H05	A4	(3) W92210-L1965-L052	4+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H05 +H05	A5	(3) W92210-L1965-L052	5-	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT List of documents	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	B1	(3) W92210-L1965-S054	1-	1	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT FEEDER OVERVIEW Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	G1	(3) W92210-L1965-S055	1-	1	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT POWER SUPPLY Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M1	(3) W92210-L1965-S055	1+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M2	(3) W92210-L1965-S055	2+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M3	(3) W92210-L1965-S055	3+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M4	(3) W92210-L1965-S055	4+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M5	(3) W92210-L1965-S055	5+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M6	(3) W92210-L1965-S055	6+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT 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
FEEDER w. BB VT
List of documents

=HZ02.3.1 A =H05
+H05 A1
998574-000501 (3) W92210-L1965-L052-A
Sheet 1+
5 Sh.

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
S	=H05 +H05	M7	(3) W92210-L1965-S055	7+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M8	(3) W92210-L1965-S055	8+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M9	(3) W92210-L1965-S055	9+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M10	(3) W92210-L1965-S055	10+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M11	(3) W92210-L1965-S055	11+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M12	(3) W92210-L1965-S055	12+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M13	(3) W92210-L1965-S055	13+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT INDICATION / STATUS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M14	(3) W92210-L1965-S055	14+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M15	(3) W92210-L1965-S055	15+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M16	(3) W92210-L1965-S055	16+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M17	(3) W92210-L1965-S055	17+	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	M18	(3) W92210-L1965-S055	18-	18	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	S1	(3) W92210-L1965-S055	1+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	S2	(3) W92210-L1965-S055	2+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM

ELCAD-Version 7.7.1 SP2
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Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

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Symbol library 3:
Symbol library 4:

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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
FEEDER w. BB VT
List of documents

=HZ02.3.1 A =H05 +H05 A2
998574-000501 (3) W92210-L1965-L052-A Sheet 2+ 5 Sh.

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
S	=H05 +H05	S3	(3) W92210-L1965-S055	3+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	S4	(3) W92210-L1965-S055	4+	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	S5	(3) W92210-L1965-S055	5-	5	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CAPDIS-S1+ Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z1	(3) W92210-L1965-S055	1+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT CIRCUIT BREAKER Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z2	(3) W92210-L1965-S055	2+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT THREE POSITION SWITCH Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z3	(3) W92210-L1965-S055	3+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT THREE POSITION SWITCH Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z4	(3) W92210-L1965-S055	4+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT THREE POSITION SWITCH Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z5	(3) W92210-L1965-S055	5+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT THREE POSITION SWITCH Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z6	(3) W92210-L1965-S055	6+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT VOIS + Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z7	(3) W92210-L1965-S055	7+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT PROTECTION DEVICE Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z8	(3) W92210-L1965-S055	8+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z9	(3) W92210-L1965-S055	9+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z10	(3) W92210-L1965-S055	10+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H05 +H05	Z11	(3) W92210-L1965-S055	11+	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM

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
FEEDER w. BB VT
List of documents

=HZ02.3.1 | A | =H05
+H05 | A3
998574-000501 | (3) W92210-L1965-L052-A | Sheet 3+ 5 Sh.

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
S	=H05 +H05	Z12	(3) W92210-L1965-S055	12-	12	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/1	(3) W92210-L1965-S058	1+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XR2 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/2	(3) W92210-L1965-S058	2+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XT1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/3	(3) W92210-L1965-S058	3+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/4	(3) W92210-L1965-S058	4+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/5	(3) W92210-L1965-S058	5+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/6	(3) W92210-L1965-S058	6+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/7	(3) W92210-L1965-S058	7+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/8	(3) W92210-L1965-S058	8+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XQ0 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/9	(3) W92210-L1965-S058	9+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XQ0 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/10	(3) W92210-L1965-S058	10+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XQ1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/11	(3) W92210-L1965-S058	11+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XQ1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/12	(3) W92210-L1965-S058	12+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XQ61 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/13	(3) W92210-L1965-S058	13+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XQ61 Connection table	EM MS O GIS SWF PR OP SEN FFM

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1	A	=H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT			+H05 A4
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION			998574-000501	(3) W92210-L1965-L052-A	Sheet 4+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		List of documents			5 Sh.

Designation				Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
V	=H05 +.B	/14		(3) W92210-L1965-S058	14+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XPE Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/15		(3) W92210-L1965-S058	15+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XT15 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/16		(3) W92210-L1965-S058	16+	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.B-XT15A Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H05 +.B	/17		(3) W92210-L1965-S058	17-	17	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT +.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: =H05 / 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

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A	change PCMI II	29.04.21	HE			
				Date	07.04.2021	
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				Appr.	Jacobi	
				Norm		

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33KV MAIN SUBSTATION
Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
List of documents

=HZ02.3.1 | A | =H05 | +H05 | A5

998574-000501 | (3) W92210-L1965-L052-A | Sheet 5- 5 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / 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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

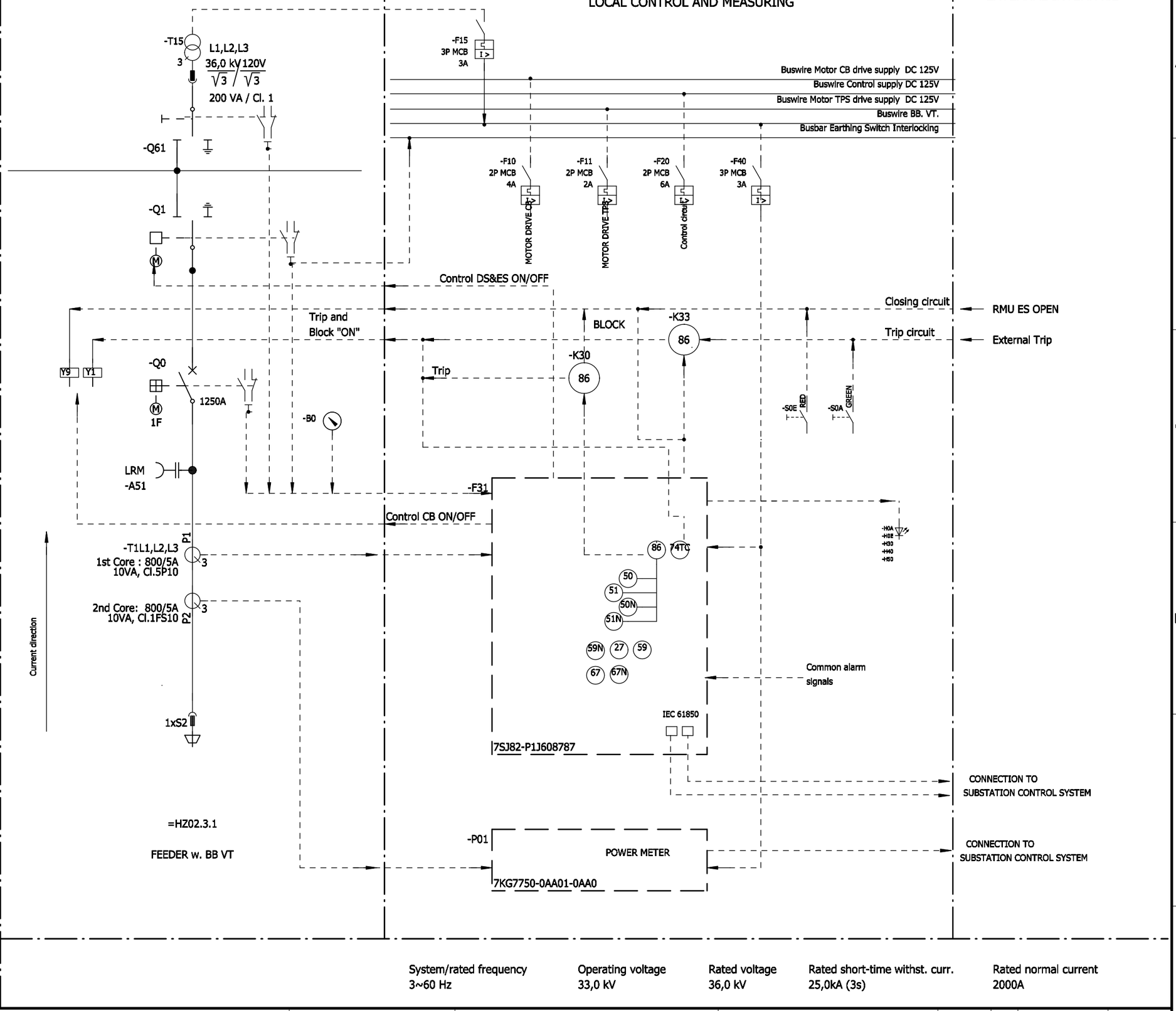
Remark :
Drawings will be applied for panel

1) H05	Feeder outgoing w. BB VT	$\frac{36,0\ kV}{\sqrt{3}} / \frac{120V}{\sqrt{3}}$	200VA Cl.1.0
2) H15	Feeder outgoing w. BB VT	$\frac{36,0\ kV}{\sqrt{3}} / \frac{120V}{\sqrt{3}}$	200VA Cl.1.0
3) H24	Feeder outgoing w. BB VT	$\frac{36,0\ kV}{\sqrt{3}} / \frac{120V}{\sqrt{3}}$	200VA Cl.1.0
4) H34	Feeder outgoing w. BB VT	$\frac{36,0\ kV}{\sqrt{3}} / \frac{120V}{\sqrt{3}}$	200VA Cl.1.0

Legend

-Q0	Motorized Circuit-Breaker
-Q1	Hand Operated 3 Position Switch
-B0...	GAS PRESSURE MONITORING
-T1	Current Transformer
-T15	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

-A51 Voltage indicator LRM



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			
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	=HZ02.3.1	S =H05	
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		FEEDER OVERVIEW		+H05	B1
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S054-A	Sheet 1-1 Sh.

ELCAD-Version 7.7.1 SP2
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Archive: =H05 / S / G / 1

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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-
Bus B12L+ / DC 125V / Bus B12L-
Bus B13L+ / DC 125V / Bus B13L-
RR = Ring Loop

+.B -XR2 11 C — RR
+.B -XR2 12 C — RR
+.B -XR2 13 C — RR
+.B -XR2 14 C — RR
+.B -XR2 25 C — RR
+.B -XR2 26 C — RR

H07V-K 2,5 BK

+.B -F10 /Z10.2 4A — 3 / 1 / 4 / 2 — I>
+.B -F11 /Z10.2 2A — 3 / 1 / 4 / 2 — I>
+.B -F20 /Z10.2 6A — 3 / 1 / 4 / 2 — I>

+.B -AQ1 /Z7.2 MCU: -X1.1 (1, 2, 3, 4)

+.B -XQ0 27 D, 28 D
+.B -XQ1 102 D, 101 D

+.L -Q0 /Z1.1 -X12 (9, 8) -M1 M DC — CIRCUIT BREAKER
+.D -Q1 /Z2.1 -X1 (0, 1) -M1 M DC — TPS

+.B -XC30 301 D
+.B -XC30 302 321 D
+.B -XC30 303 322
+.B -XC30 304 323
+.B -XC30 305 324
+.B -XC30 306 325
+.B -XC30 307 326
+.B -XC30 308 327
+.B -XC30 309 328
+.B -XC30 310 329
+.B -XC30 311 330
20L+ / 20L- /M1.1

301 C — 321 C
303 C — 323 C
301 A — 321 A

+.T -F31 /Z8.1 7SJ82: -2 L1 (+), -2 L2 (-)
+.T -P01 /Z12.5 7KG7750: L/+ (+), N/- (-)
+.B -AQ1 /Z7.2 MCU-MH: -X1.2 (9, 8)

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name		
A	change PCMI II	29.04.21	HE		

Date 07.04.2021 | Drawn Herrmann | Appr. Jacobi | Norm | Orig./Prep.for/Prep.by

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION

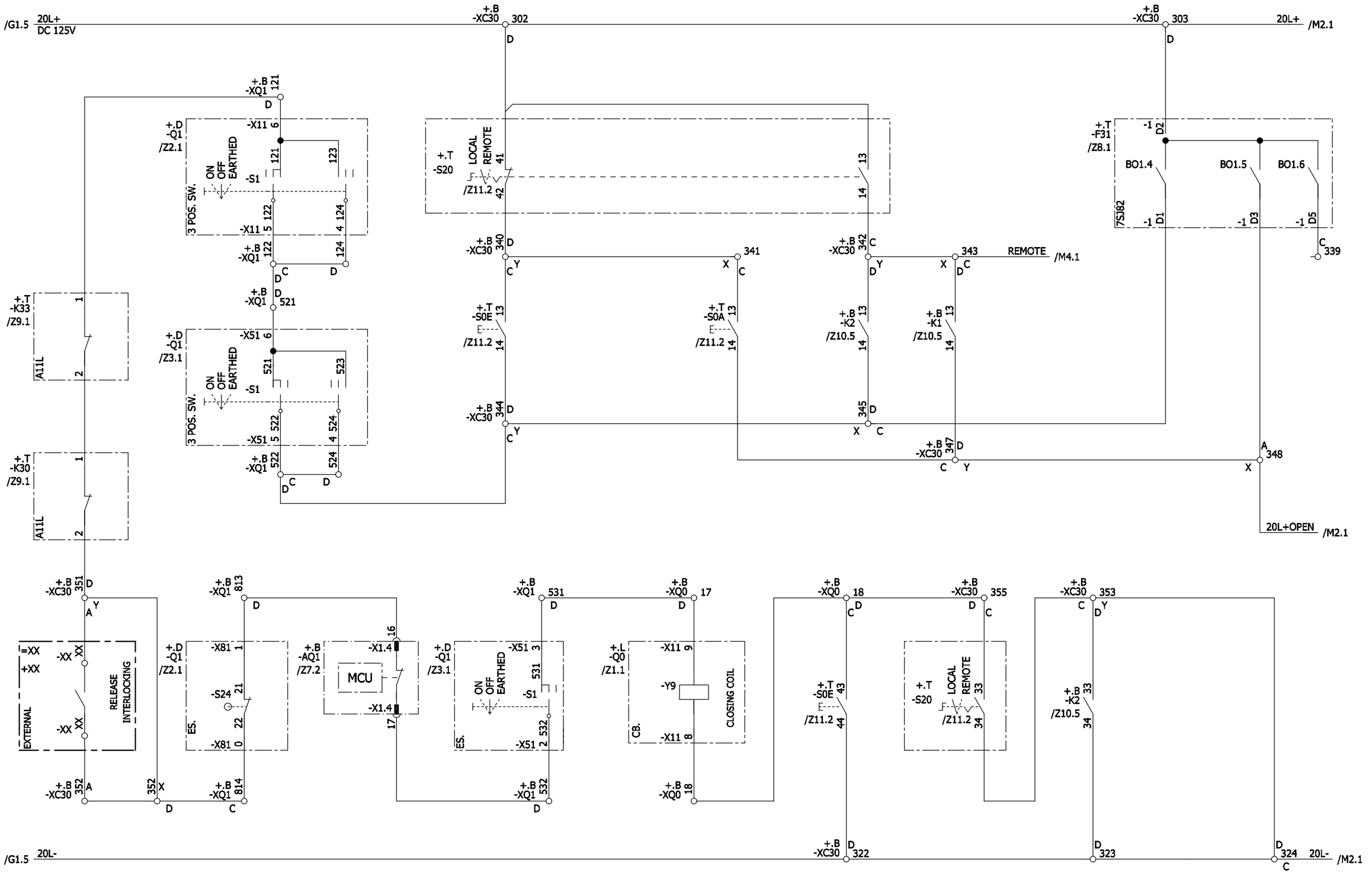
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
POWER SUPPLY
Circuit diagram

=HZ02.3.1 S =H05 +H05 G1
998574-000501 (3) W92210-L1965-S055-A
Sheet 1- 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

LV COMPARTMENT

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / 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:

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

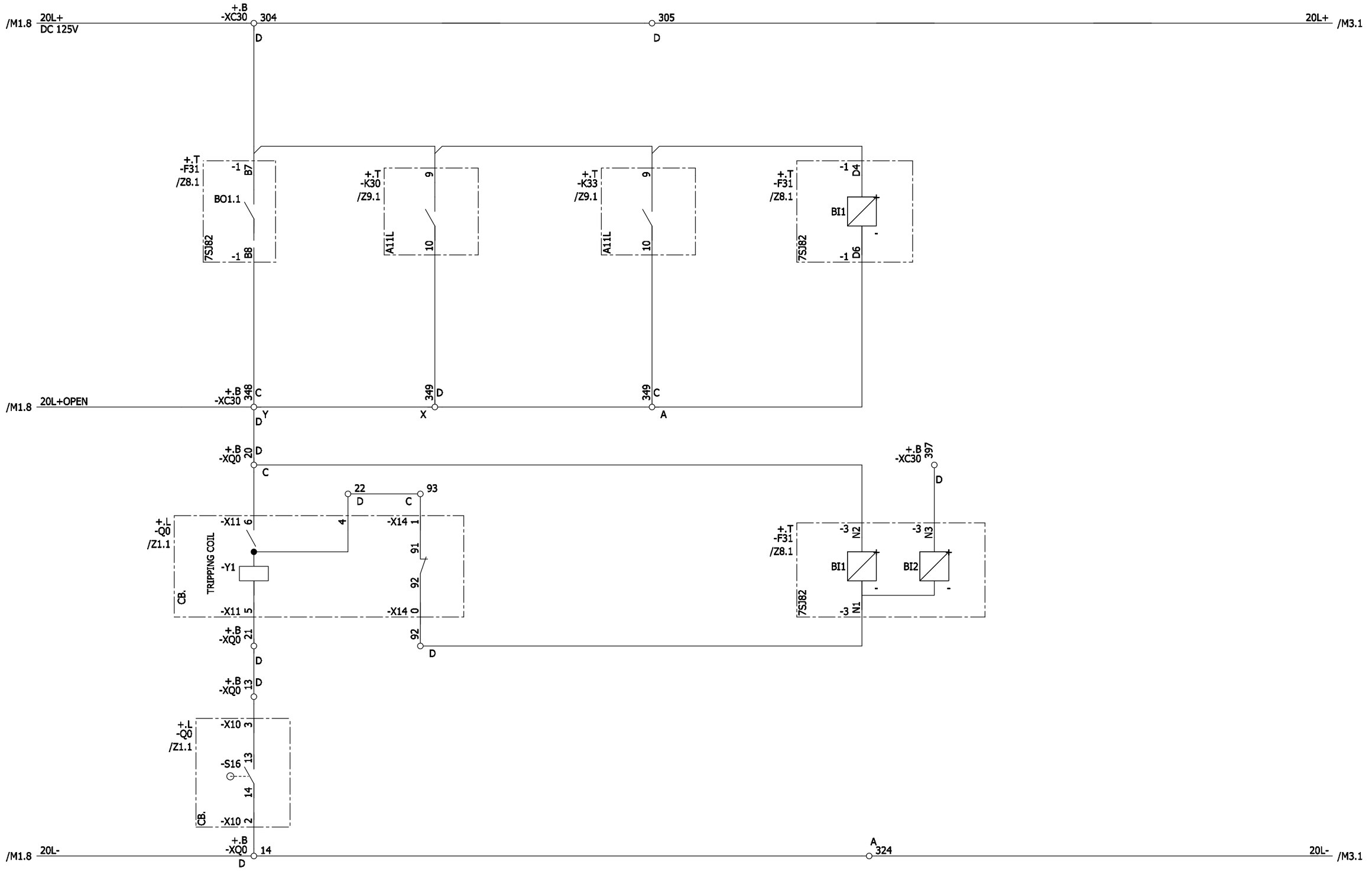
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
CONTROL, CB. CLOSING/TRIPPING
Circuit diagram

=HZ02.3.1 S =H05
+H05 M1
998574-000501 (3) W92210-L1965-S055-A Sheet 1+ 18 Sh.

CIRCUIT BREAKER TRIPPING CONTROL CIRCUIT

	27/59	LOCK OUT RELAY 51,51N,67, 67N	86 LOCK OUT RELAY	TCS		



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1 S =H05	
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05	M2
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL, CB. CLOSING/TRIPPING	998574-000501 (3) W92210-L1965-S055-A	Sheet 2+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		18 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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / 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:

LV COMPARTMENT

/M2.8 20L+ DC 125V +.B -XC30 305 C

+.T -S20 LOCAL REMOTE 23 61 /Z11.2 24 62

+.T -F31 /Z8.1 -3 M1 BO3.1 BO3.2 BO3.3 BO3.4 7SJ82 -3 M2 M3 M4 M5

+.B -XC30 356 C D

+.B -K1A /Z10.5 13 14 +.B -XC30 371 C D A
+.B -K1E /Z10.5 13 14 +.B -XC30 372 C D A
+.B -K5A /Z10.5 13 14 +.B -XC30 373 C D A
+.B -K5E /Z10.5 13 14 +.B -XC30 374 C D A

306 C 20L+ /M4.1

+.B -XQ1 133 C D

+.D -Q1 /Z2.1 -X11 1 133 ON OFF EARTHED -S1 TPS -X11 0 134 +.B -XQ1 134 D

541 D Y X D 543

+.D -Q1 /Z2.1 -X52 3 541 ON OFF EARTH -S1 TPS -X52 2 542 +.B -XQ1 141 D

542 D 544 D

+.D -Q1 /Z2.1 -X12 3 141 ON OFF EARTHED -S1 TPS -X12 2 142 +.B -XQ1 142 D

817 D

+.D -Q1 /Z2.1 -X82 1 -S25 21 22 TPS -X82 0 818 +.B -XQ0 31 D

+.L -Q0 /Z1.1 -X12 5 31 -S1 32 CB. -X12 4 +.B -XQ0 32 D

+.B -AQ1 /Z7.2 MCU BI 6 BI2 BI1 BI4 BI3 BI8 BI7 BI9 BI5

-X1.3 11 10 13 12 -X1.2 6 5 7 -X1.4 14

-X1.4 15 D

/M2.8 20L- 325 20L- /M4.1

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

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
FEEDER w. BB VT
CONTROL, CB. CLOSING/TRIPPING
Circuit diagram

=HZ02.3.1 S =H05 +H05 M3
998574-000501 (3) W92210-L1965-S055-A Sheet 3+ 18 Sh.

LV COMPARTMENT

PROTECTION CONTROL CIRCUIT

REMOTE	LOCK 51,51N,67, 67N	LOCKOUT (86)	STATUS OF CIRCUIT BREAKER: CB. OFF	STATUS OF CIRCUIT BREAKER: CB. ON	STATUS OF DISCONNECTOR: DS. OFF	STATUS OF DISCONNECTOR: DS. ON	STATUS OF EARTH: ES. OFF	STATUS OF EARTH: ES. ON	MCB. TRIP	PT MCB. TRIP	GAS MONITORING CIRCUIT: LOW / HIGH	CB motor status: OP.MECH. CHARGE

/M3.8 20L+ DC 125V +.B -XC30 306 D — 304 20L+ DC 125V /M5.1 C

/M1.7 REMOTE

+.B -XQ0 A 51 C D — +.B -XQ1 111 C D — 511 D C — +.B -XQ0 23 C

-+.T -K30 /Z9.1 17 A11L 18

-+.T -K33 /Z9.1 17 A11L 18

-+.D -Q0 /Z1.1 -X13 5 51 CB. 52 53 54 -X13 4 -X13 3

-+.D -Q1 /Z2.1 -X11 9 ON OFF EARTHED -S1 111 113 DS. 112 114 -X11 8 -X11 7

-+.D -Q1 /Z3.1 -X51 9 ON OFF EARTHED -S1 511 513 ES. 512 514 -X51 8 -X51 7

+.B -K50 /Z10.5 43 44

+.B -K51 /Z10.5 43 44

+.B -K53 /Z10.5 43 44

-+.D -Q0 /Z1.1 -X11 3 -S41 13 14 2 -X11 2 3-POS. SW.

+.B -XQ0 52 D — 54 D — +.B -XQ1 112 D — 114 D — +.B -XQ1 512 D — 514 D — +.B -XC30 C 375 D — +.B -XC30 C 376 D — +.B -XC30 C 377 D — +.B -XQ0 24 D

-+.T -F31 /Z8.1 BI2.1 -2 L12 — BI2.2 -2 L14 — BI2.3 -2 L13 — BI3.3 -3 N5 — BI3.4 -3 N6 — BI3.5 -3 N7 — BI3.6 -3 N8 — BI3.7 -3 N9 — BI3.8 -3 N10 — BI3.9 -3 N12 — BI3.10 -3 N13 — BI3.11 -3 N14 — BI3.12 -3 N15

7SJ82 -2 L11 — -3 N11

/M3.8 20L- +.B -XC30 C 325 — D 326 — 20L- /M5.1

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name		
A	change PCMI II	29.04.21	HE		

Date	07.04.2021	
Drawn	Herrmann	
Appr.	Jacobi	
Norm		
Orig./Prep.for/Prep.by		

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
CONTROL CIRCUIT
Circuit diagram

=HZ02.3.1 S =H05 +H05 M4

998574-000501 (3) W92210-L1965-S055-A

Sheet 4+ 18 Sh.

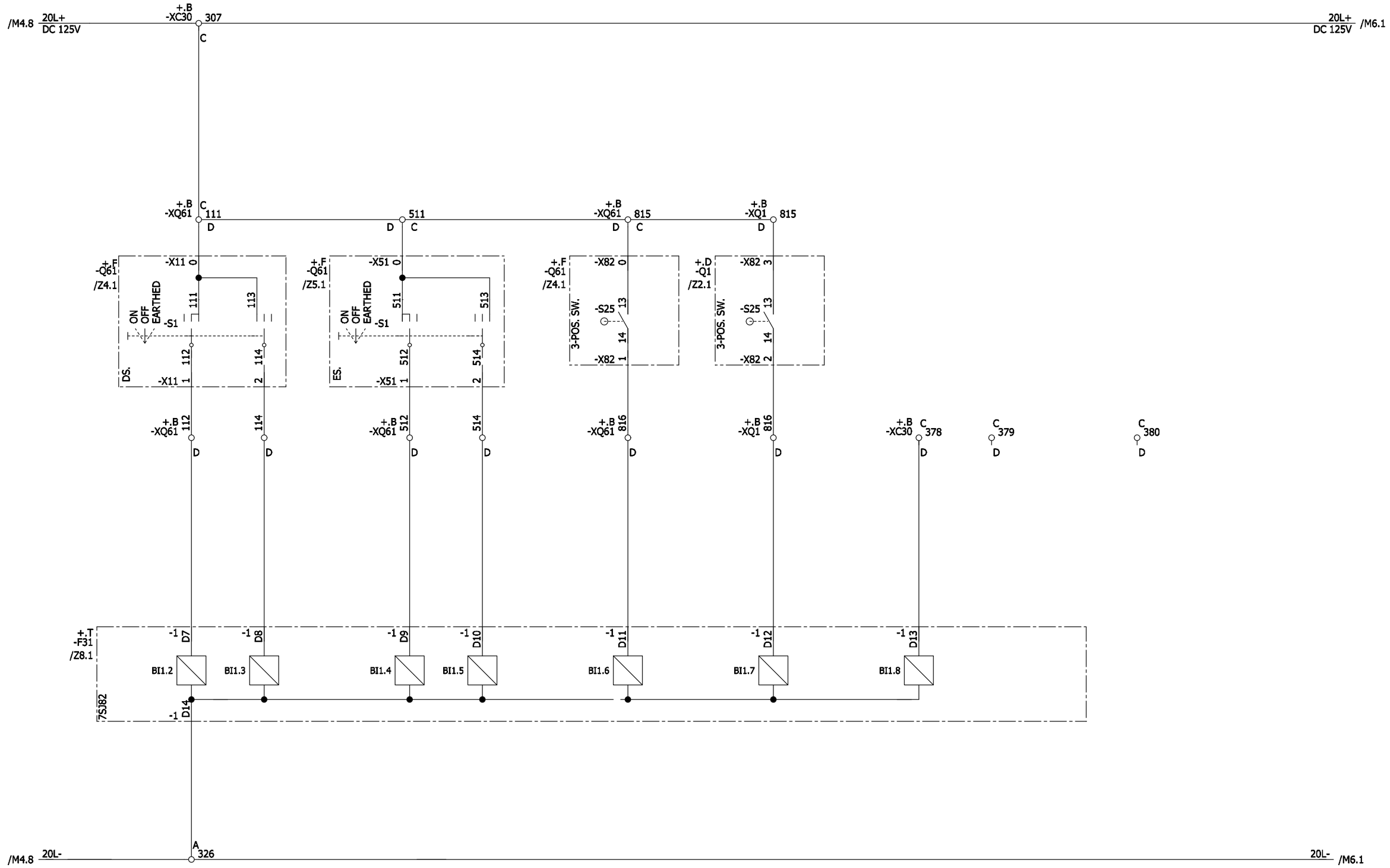
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / M / 5

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

PROTECTION CONTROL CIRCUIT							
STATUS OF DISCONNECTOR -Q61		STATUS OF EARTH -Q61		OPERATING KEY -Q61	OPERATING KEY -Q1		
DS. OFF	DS. ON	ES. OFF	ES. ON	INSERTED	INSERTED	SPARE	SPARE



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

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

Orig./Prep.for/Prep.by

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
CONTROL CIRCUIT
Circuit diagram

=HZ02.3.1 | S | =H05
+H05 | M5

998574-000501 | (3) W92210-L1965-S055-A | Sheet 5+ 18 Sh.

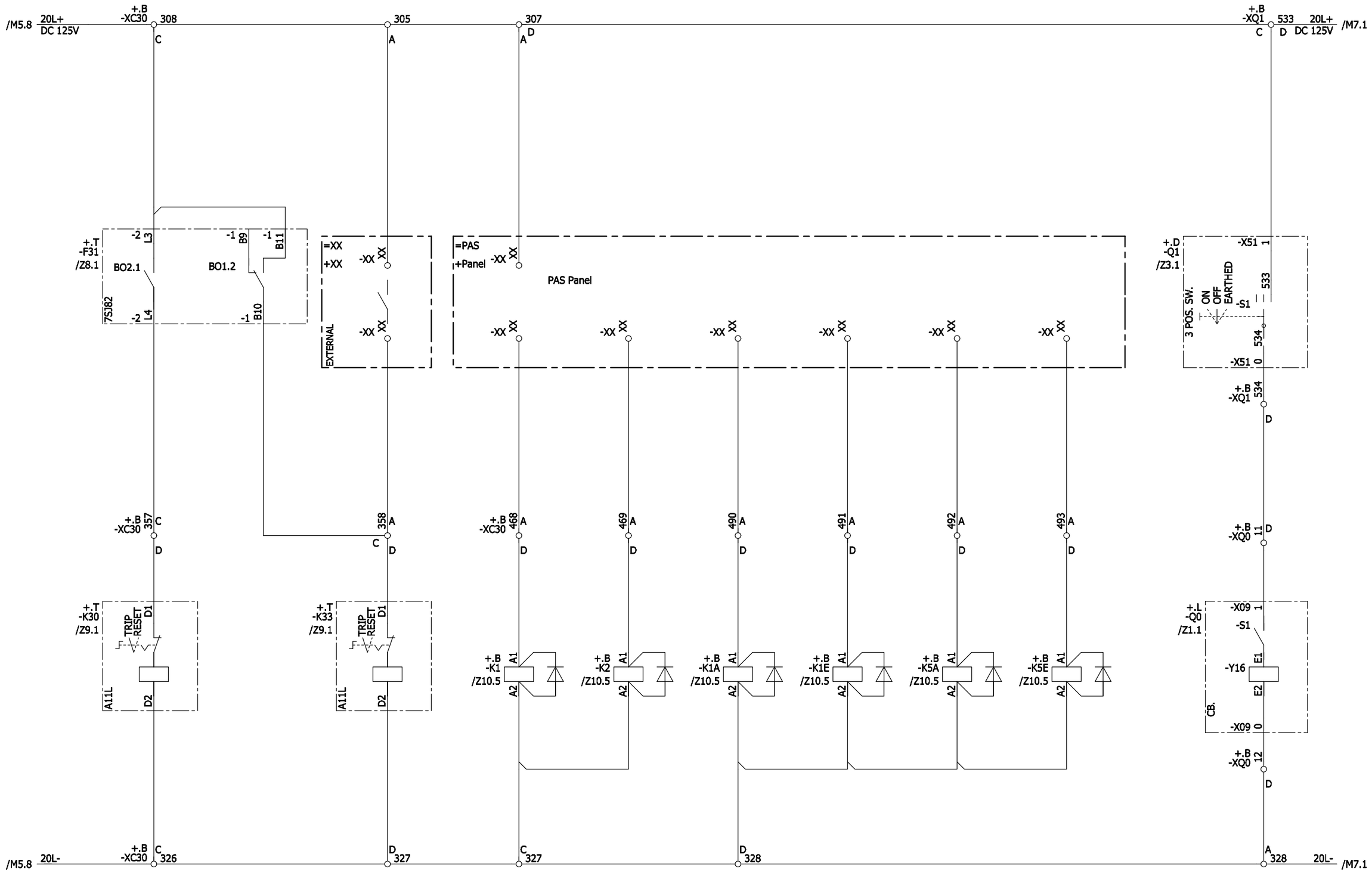
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / M / 6

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:

LV COMPARTMENT

CIRCUIT BREAKER TRIP CONTROL					TPS PAS CONTROL					
CIRCUIT BREAKER TRIP BY			PAS CONTROL CIRCUIT		DISCONNECTOR		EARTHING SWITCH		INTERLOCKING COIL	
51,51N,67, 67N TRIP	86 TRIP	EXTERNAL TRIP	CB. OFF	CB. ON	OFF	ON	OFF	ON	CB. OPER.MECHANISM BLOCKED	



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

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

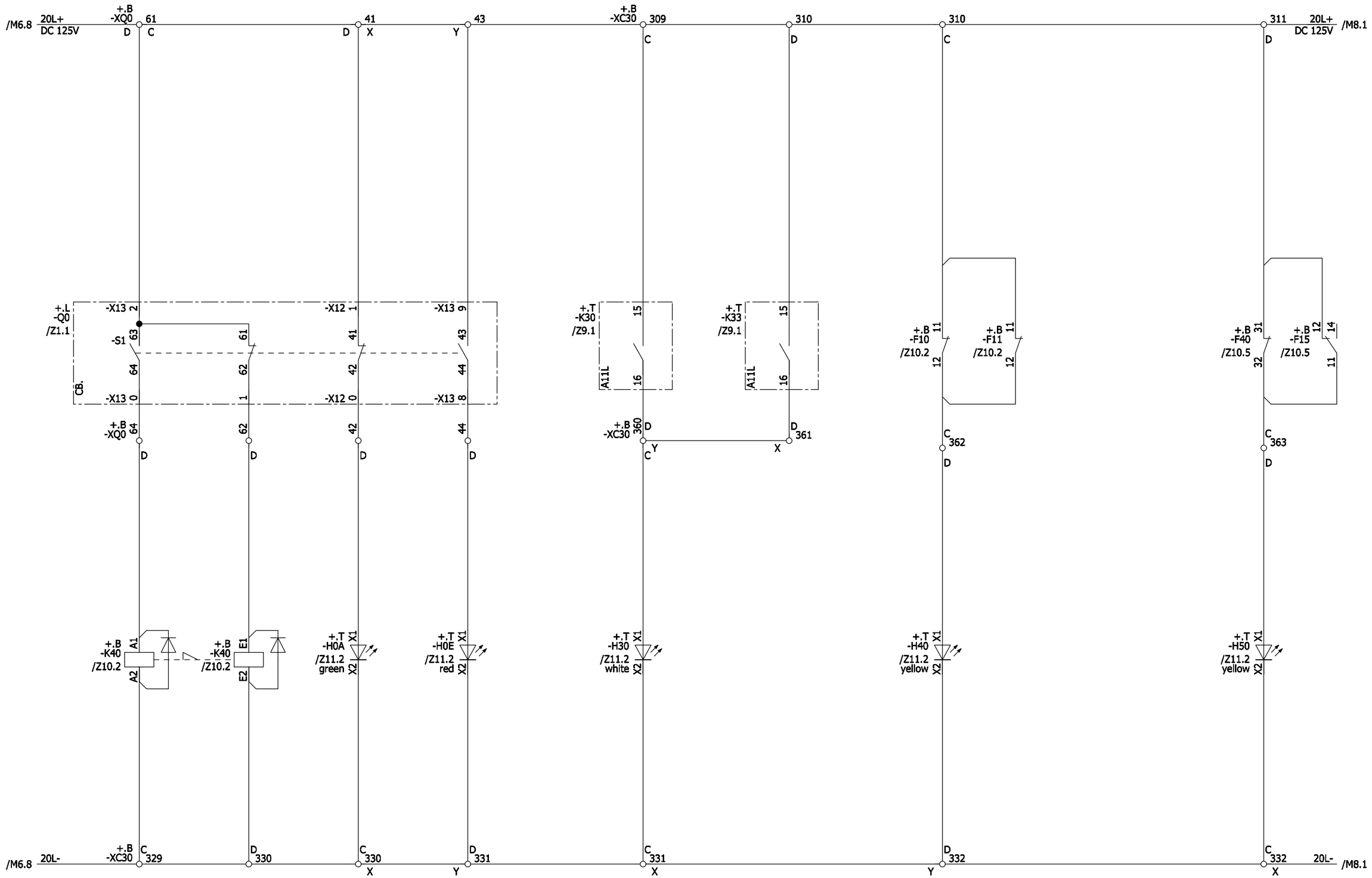
8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
CONTROL CIRCUIT
Circuit diagram

=HZ02.3.1 | S | =H05 | +H05 | M6
998574-000501 | (3) W92210-L1965-S055-A | Sheet 6+ | 18 Sh.

LV COMPARTMENT

POSITION INDICATION CONTROL CIRCUIT

CB STATUS				TRIPPING AND LOCKOUT RELAY		MCB OFF/ TRIP INDICATOR			
ON	OFF	OFF	ON	51,51N,67, 67N TRIP	EXTERNAL, 86 Trip	CB MOTOR DRIVE	TPSMOTOR DRIVE		PT MCB



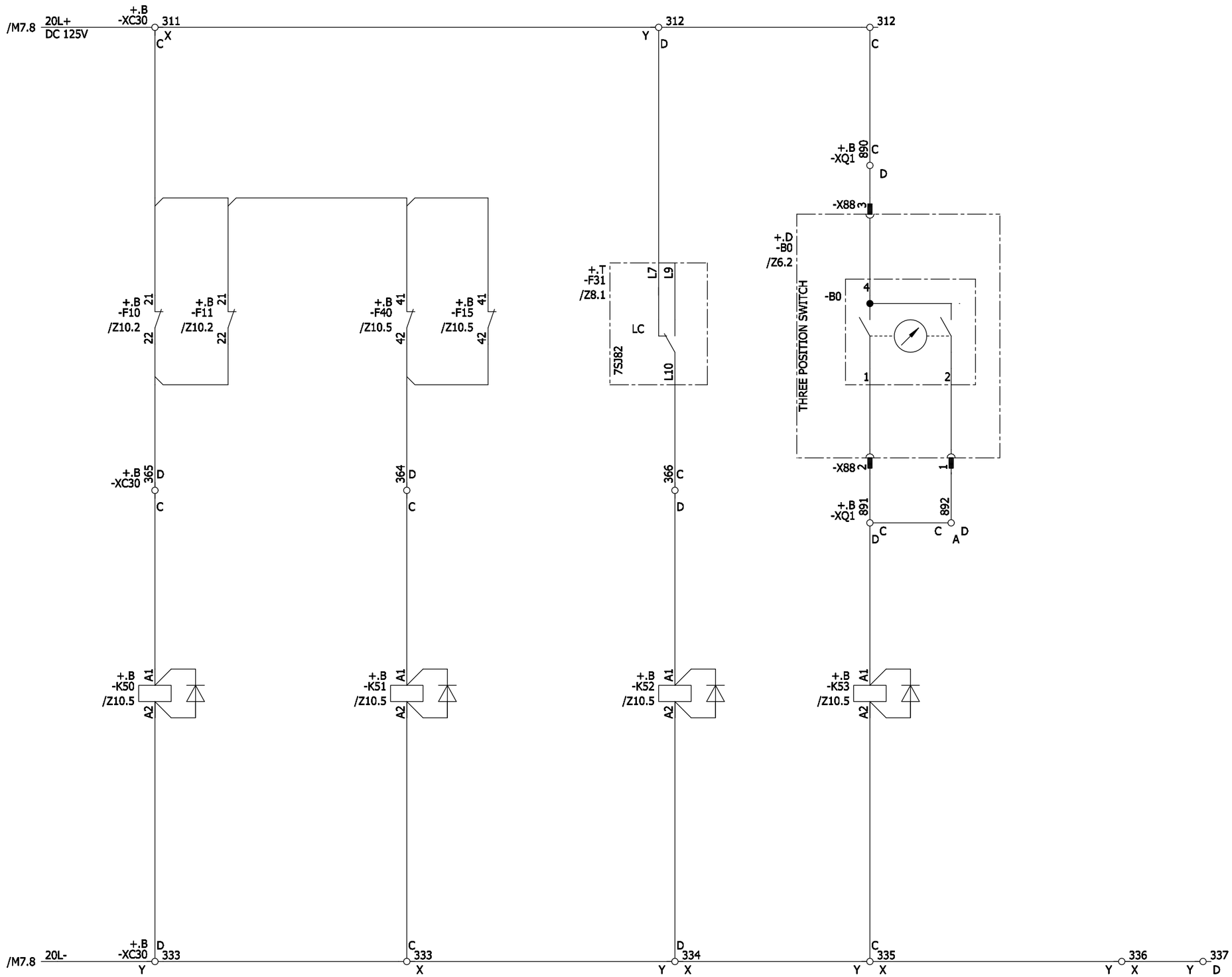
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

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

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
CONTROL CIRCUIT
Circuit diagram

=HZ02.3.1 S =H05
+H05 M7
998574-000501 (3) W92210-L1965-S055-A Sheet 7+ 18 Sh.

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



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / 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

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
FEEDER w. BB VT
SIGNAL CONTACT FOR EXTERNAL
Circuit diagram

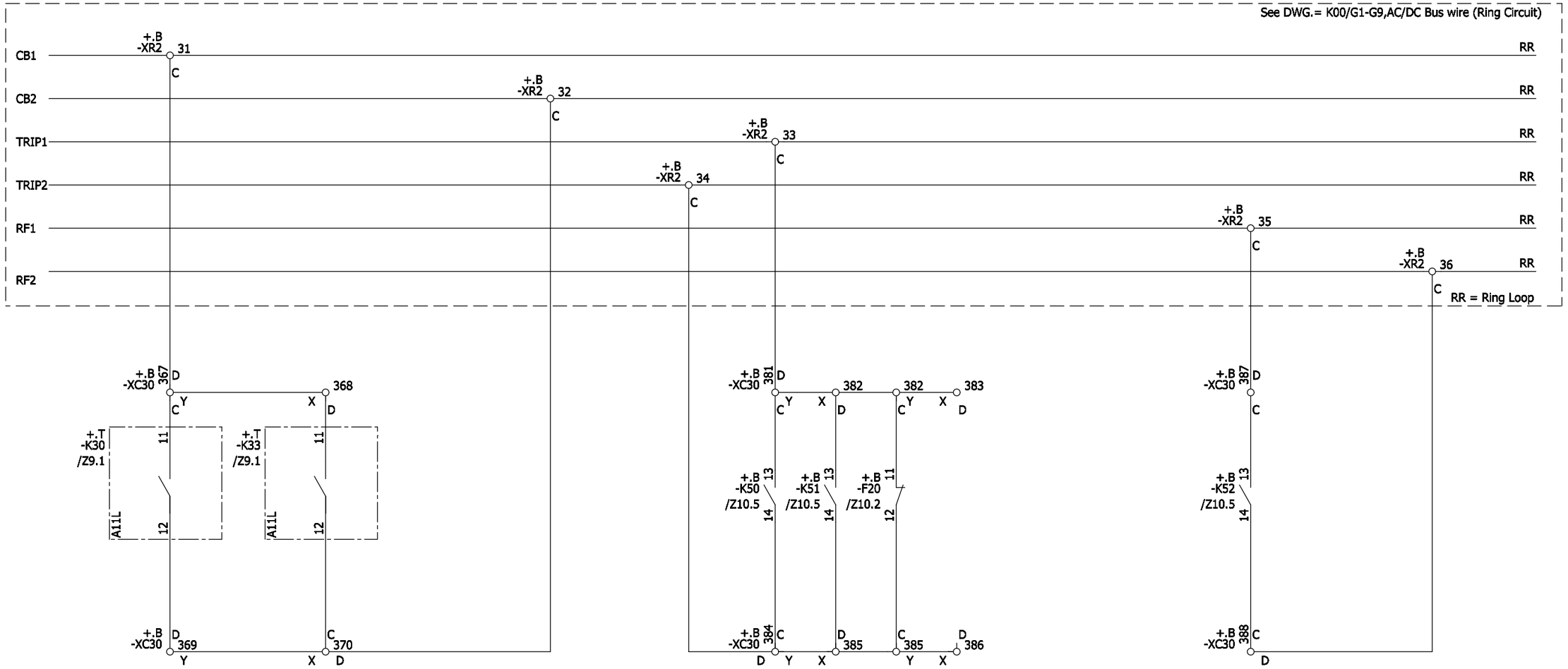
=HZ02.3.1 | S | =H05
+H05 | M8
998574-000501 | (3) W92210-L1965-S055-A | Sheet 8+ | 18 Sh.

SIGNAL CONTACT FOR BUS WIRE

LOCKOUT RELAY				MCB OFF / TRIP	PROTECTION RELAY		
	50/51/50N/51N TRIP	EXTERNAL			LIVE STATUS CONTACTS		

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / 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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT



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	=HZ02.3.1 S =H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05 M9
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501 (3) W92210-L1965-S055-A Sheet 9+
				Norm		Orig./Prep.for/Prep.by		Circuit diagram	18 Sh.

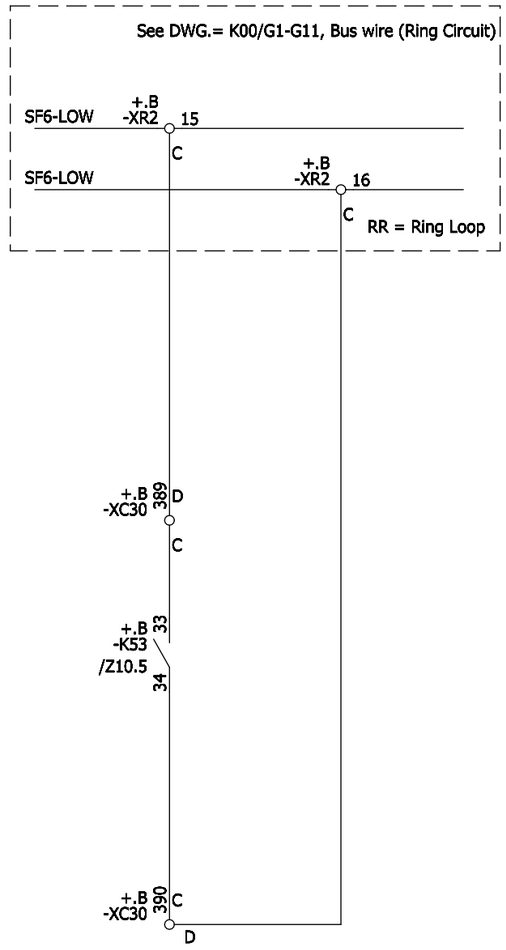
SIGNAL CONTACT FOR BUS WIRE

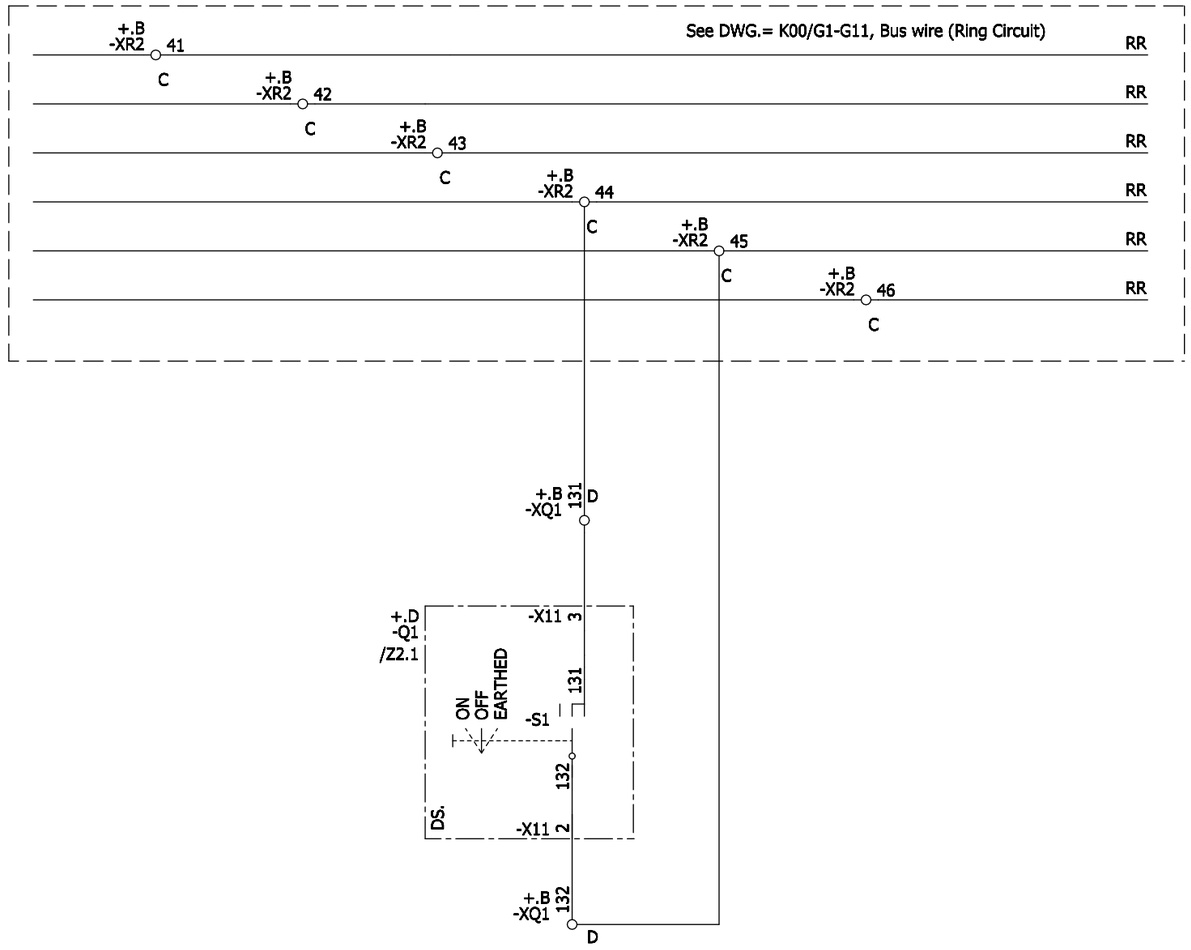
GAS MONITORING CIRCUIT

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: =H05 / 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

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
FEEDER w. BB VT
SIGNAL CONTACT FOR EXTERNAL
Circuit diagram

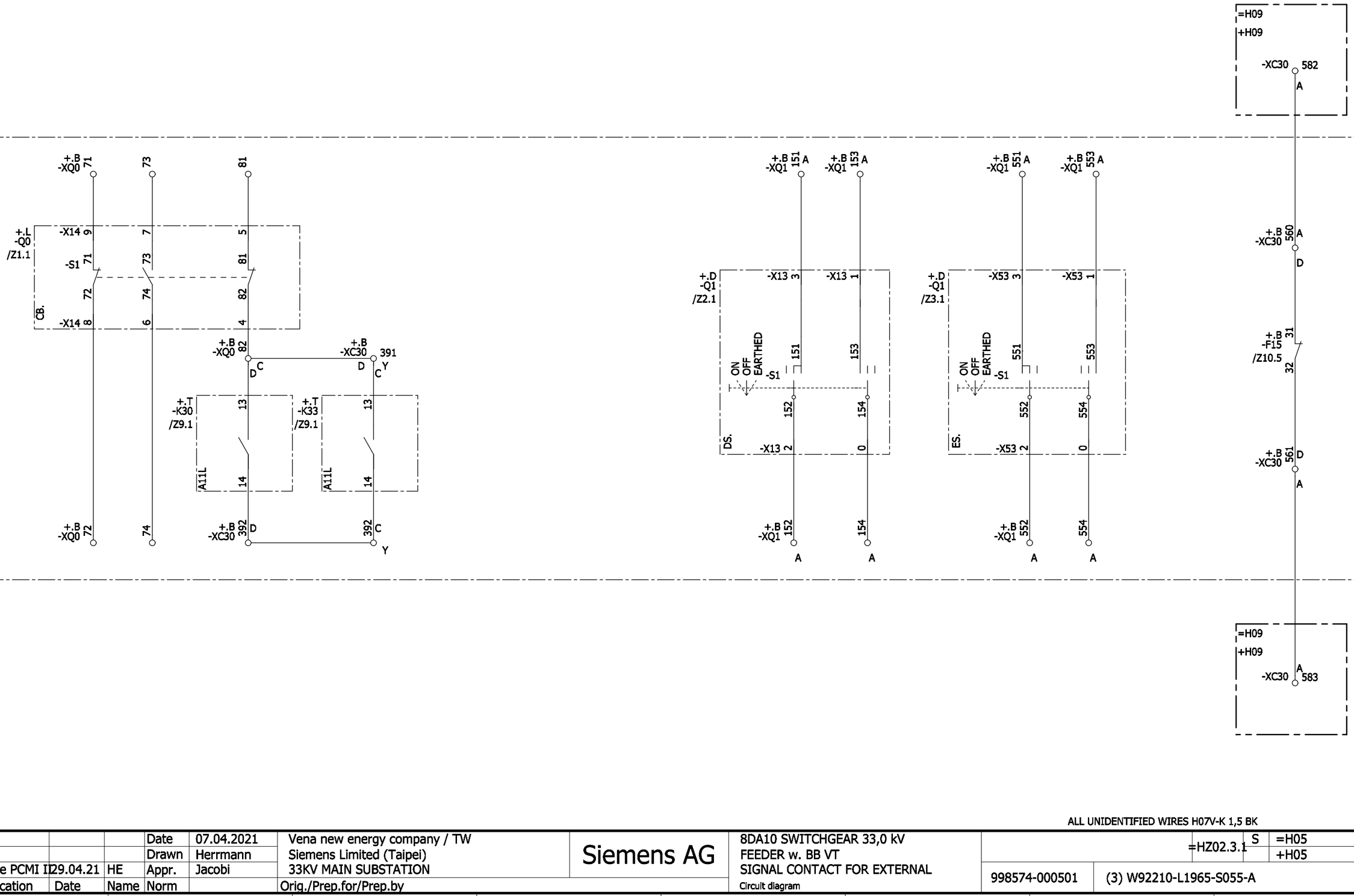
=HZ02.3.1 | S | =H05 | +H05 | M10

998574-000501 | (3) W92210-L1965-S055-A | Sheet 10+ 18 Sh.

SIGNAL CONTACT FOR EXTERNAL											
CIRCUIT BREAKER				ISOLATOR SWITCH		EARTHING SWITCH			MCB OFF		
OFF	ON	TRIP		OFF	ON	OFF	ON		PT MCB		

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / 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 library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

LV COMPARTMENT



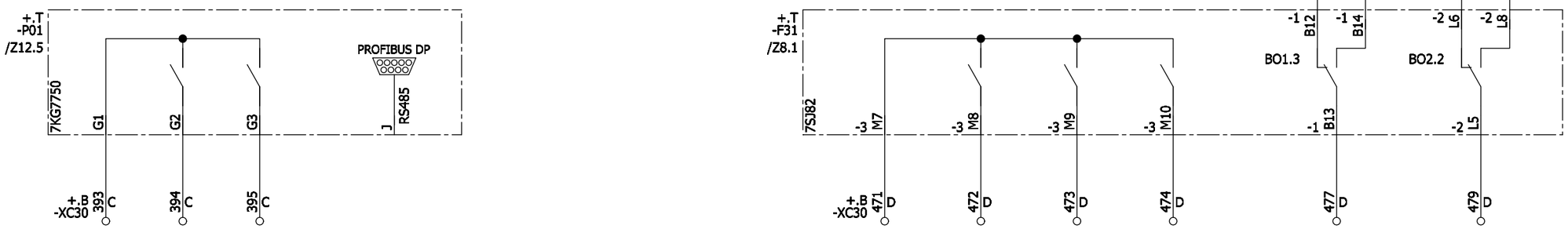
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

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
FEEDER w. BB VT
SIGNAL CONTACT FOR EXTERNAL
Circuit diagram

=HZ02.3.1 | S | =H05 | +H05 | M11
998574-000501 | (3) W92210-L1965-S055-A | Sheet 11+ | 18 Sh.

SIGNAL CONTACT FOR EXTERNAL									
POWER METER			LOCKOUT RELAY						
COMMUNICATION INTERFACE		SPARE	SPARE	51/51N	50/50N	SPARE		SPARE	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	=HZ02.3.1	S	=H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT			+H05 M12
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501	(3) W92210-L1965-S055-A	Sheet 12+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			18 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / M / 12

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:

CONTACT FOR EXTERNAL

AUXILIARY CONTACT FOR CB. STATUS

ON	OFF	OFF	ON	ON	OFF	OFF	ON

=EXT
+I/O PANEL

-XX XX -XX XX

+.B -XC30 452 A D — 453 A D — 454 D — 455 D — 456 D — 457 D — 458 D — 459 D

+.B -K40 /Z10.2 13 14 — 21 22 — 31 32 — 43 44 — 53 54 — 61 62 — 71 72 — 83 84

+.B -XC30 460 D A — 461 D A — 462 D — 463 D — 464 D — 465 D — 466 D — 467 D

=EXT
+I/O PANEL

-XX XX -XX XX

LV COMPARTMENT

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / M / 13

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:

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

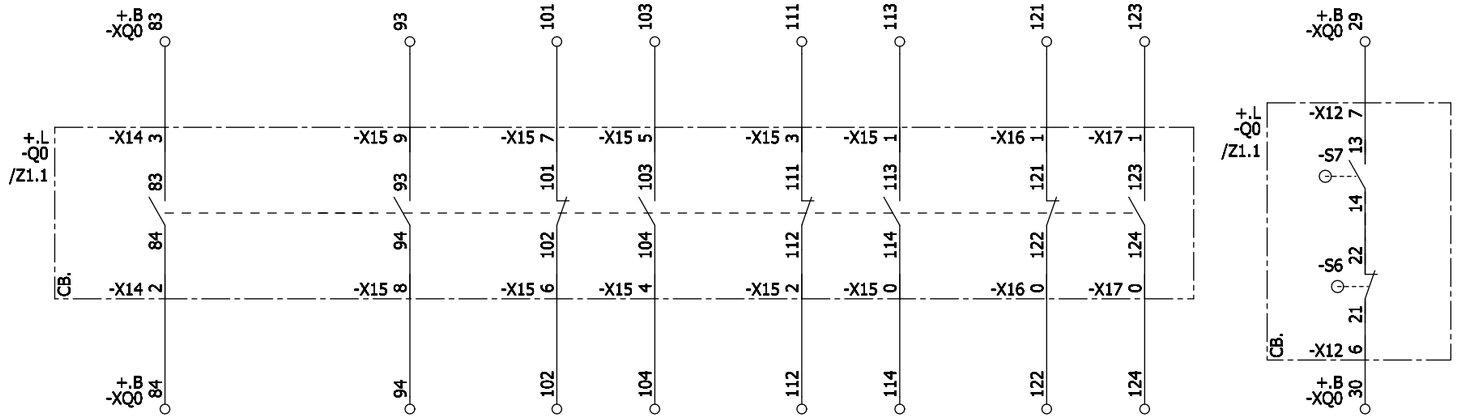
Revision	Modification	Date	Name				
				Date	07.04.2021	Vena new energy company / TW	Siemens AG
				Drawn	Herrmann	Siemens Limited (Taipei)	
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION	
				Norm		Orig./Prep.for/Prep.by	

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
INDICATION / STATUS
Circuit diagram

=HZ02.3.1 S =H05 +H05 M13

998574-000501 (3) W92210-L1965-S055-A Sheet 13+ 18 Sh.

CONTACT FOR EXTERNAL												
	CIRCUIT BREAKER											BREAKER TRIPPING
ON		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: =H05 / 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

LV COMPARTMENT

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	=HZ02.3.1 S =H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05 M14
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL CIRCUIT	Sheet 14+
				Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501 (3) W92210-L1965-S055-A 18 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / M / 15

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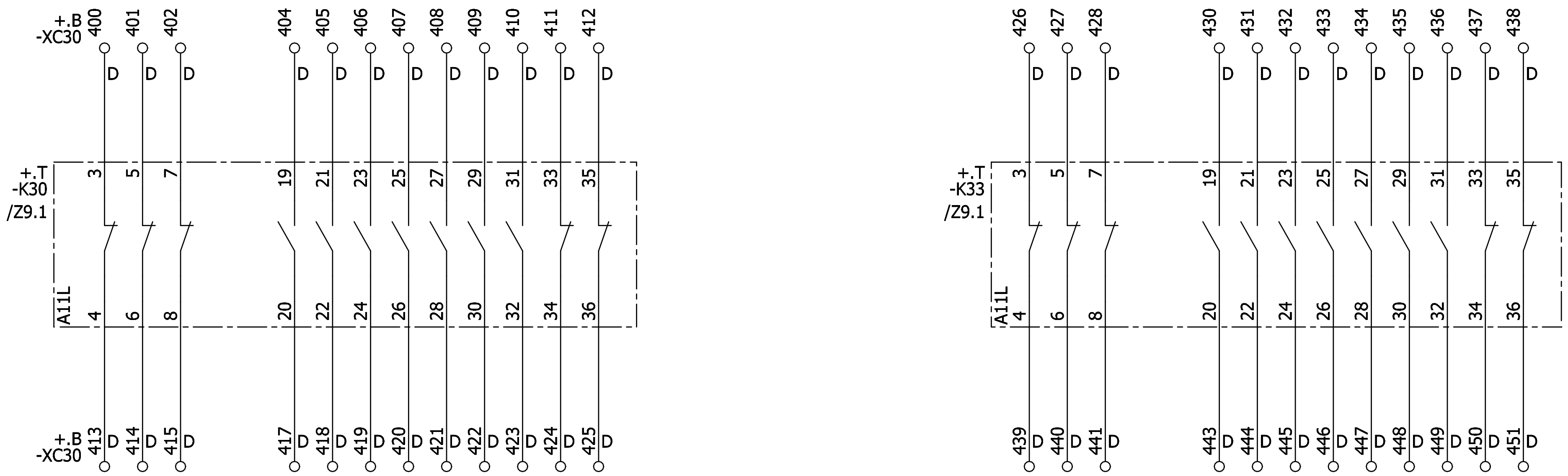
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

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

LV COMPARTMENT

SIGNAL CONTACT FOR EXTERNAL

SPARE		SPARE	SPARE	SPARE	SPARE	SPARE		SPARE		SPARE	SPARE	SPARE	SPARE	SPARE
SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE		SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE

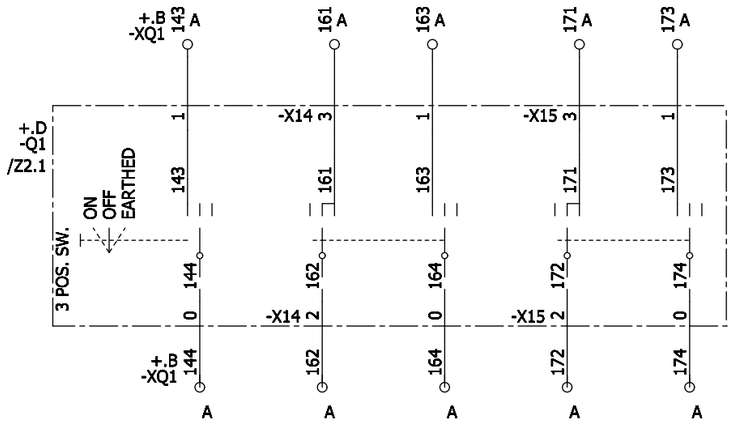


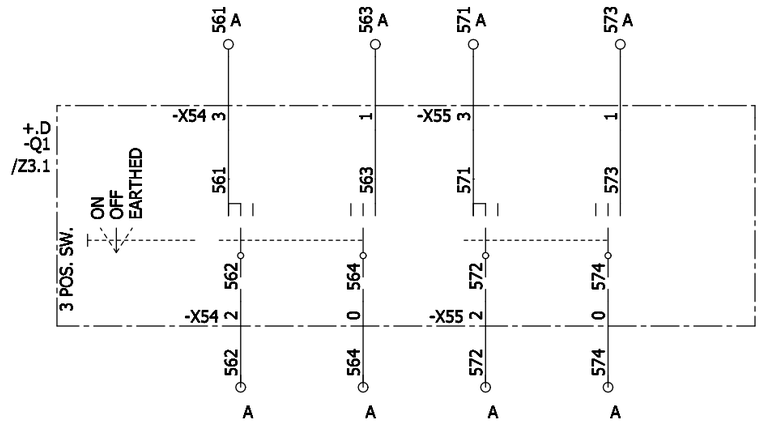
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT
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

=HZ02.3.1	S	=H05	
		+H05	M15
998574-000501	(3) W92210-L1965-S055-A		Sheet 15+
			18 Sh.

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

ELCAD-Version 7.7.1 SP2
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Archive: =H05 / S / M / 16
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 FEEDER w. BB VT CONTROL CIRCUIT Circuit diagram	=HZ02.3.1 S =H05 +H05 M16
				Drawn	Herrmann				
A	change PCMI II	29.04.21	HE	Appr.	Jacobi				998574-000501 (3) W92210-L1965-S055-A Sheet 16+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by			18 Sh.

SPARE AUXILIARY CONTACT

EARTHING SWITH BUSBAR VT AND EARTHING SWITCH

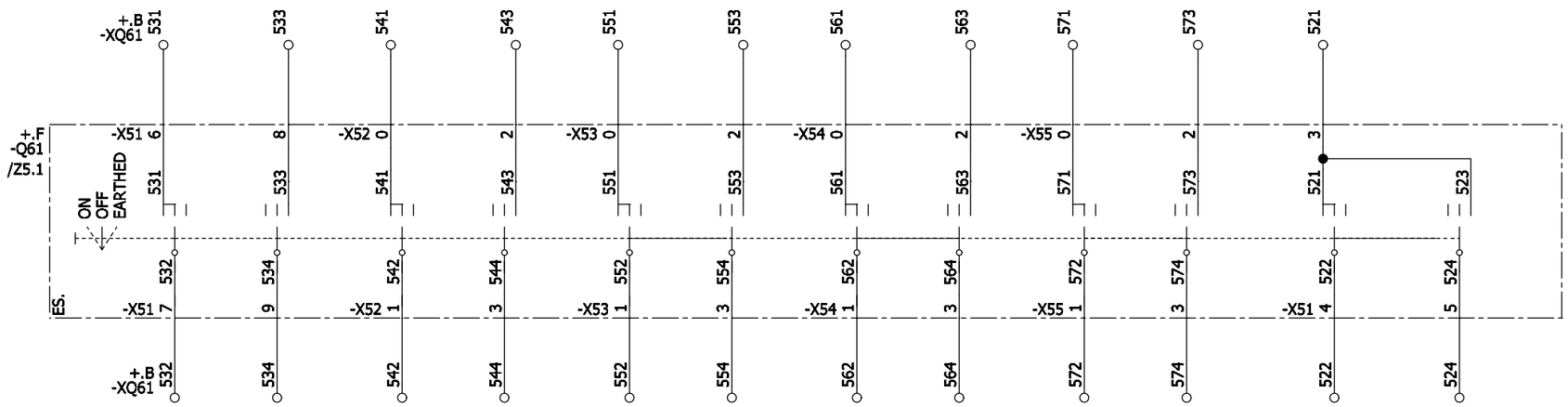
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON		

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / M / 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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

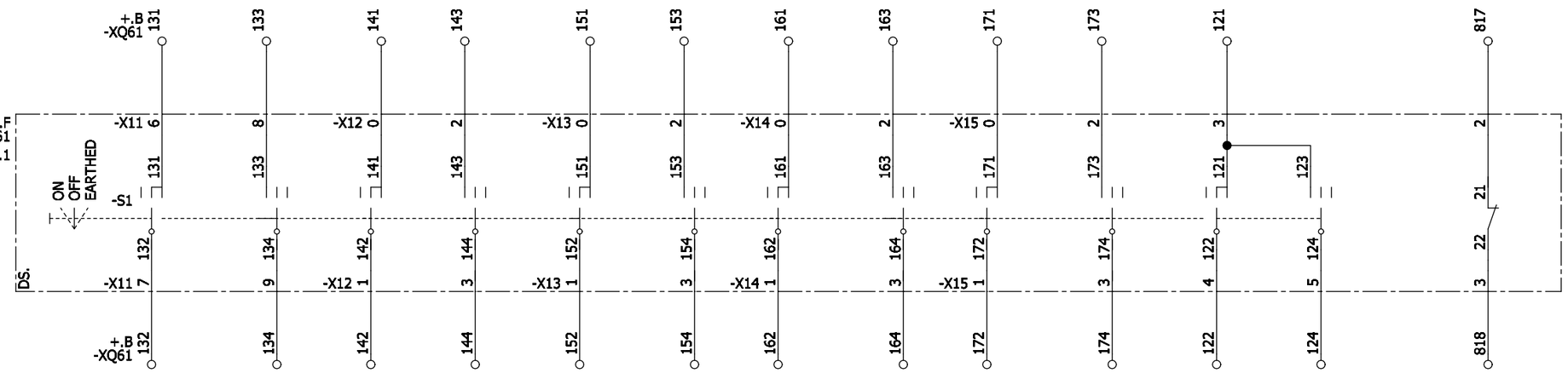
LV COMPARTMENT



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1 S =H05	
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05	M17
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL CIRCUIT	998574-000501 (3) W92210-L1965-S055-A	Sheet 17+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		18 Sh.

	SPARE AUXILIARY CONTACT																
	ISOLATER SWITH BUSBAR VT AND EARTHING SWITCH														SWITCH KEY UNPLUGED		
		OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON				



LV COMPARTMENT

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / M / 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:

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1 S =H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05 M18
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL CIRCUIT	998574-000501 (3) W92210-L1965-S055-A Sheet 18-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	18 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / 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:

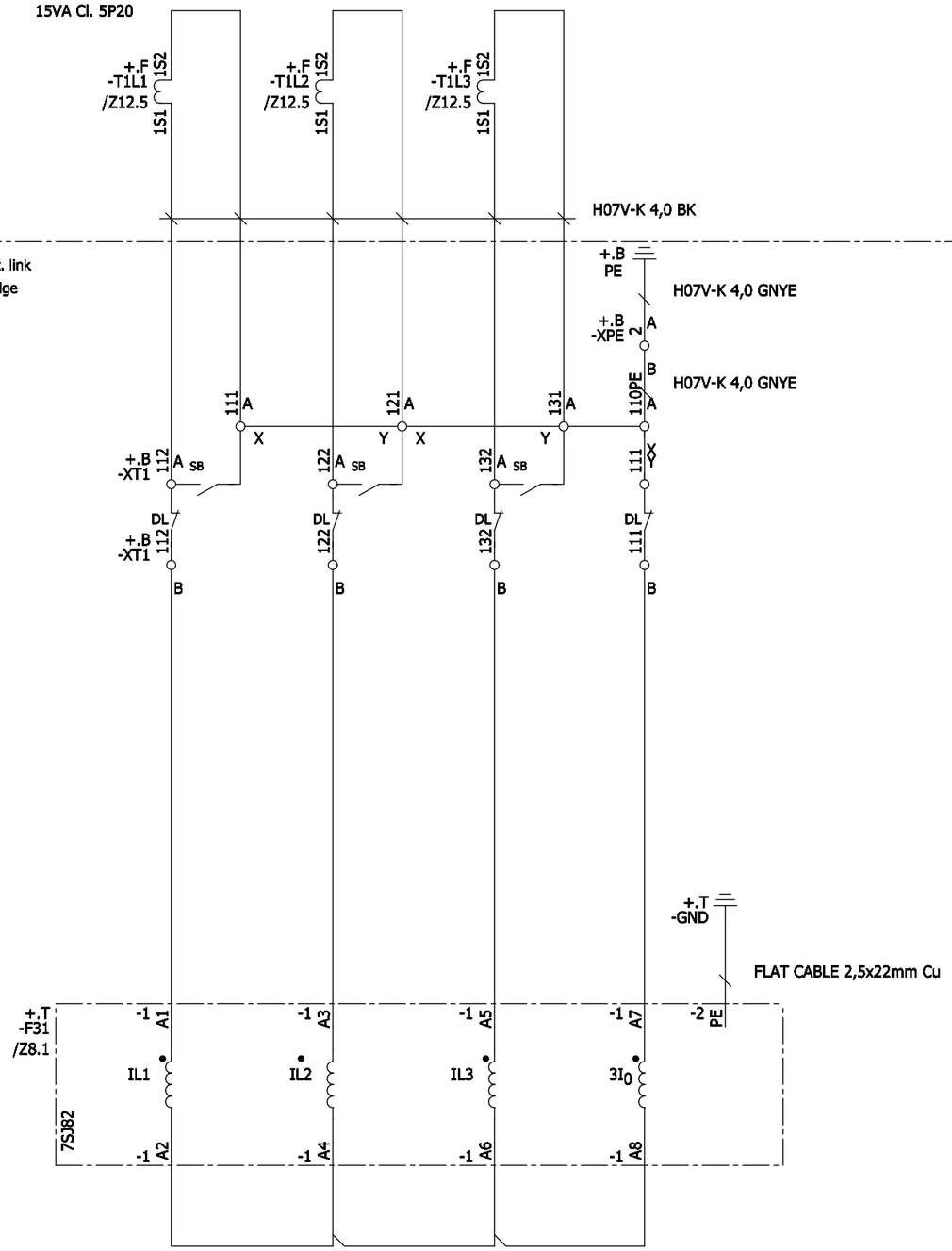
1st SECONDARY CORE OF CURRENT TRAMSFORMER

FOR PROTECTION

HV COMP.

LV COMPARTMENT

1st Core
800/5A
15VA Cl. 5P20



ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1 S =H05	
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05	S1
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS	998574-000501 (3) W92210-L1965-S055-A	Sheet 1+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		5 Sh.

2nd SECONDARY CORE OF CURRENT TRAMSFORMER

FOR METERING

HV COMP.

LV COMPARTMENT

2nd Core
800/5A
30VA Cl. 1FS10

+.F -T1L1 /Z12.5 2S2 2S1
+.F -T1L2 /Z12.5 2S2 2S1
+.F -T1L3 /Z12.5 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

211 A X — 221 A Y X — 231 A Y

+.B -XT1 212 A SB — DL +.B -XT1 212 B
+.B -XT1 222 A SB — DL +.B -XT1 222 B
+.B -XT1 232 A SB — DL +.B -XT1 232 B

210PE B A
211 X Y — DL 211 B

+.T -P01 /Z12.5 — 7KG7750
E1 E3 E5 PE
IL1 IL2 IL3
CURRENT
E2 E4 E6

241 A X — 251 A Y X — 261 A Y

+.B -XT1 242 A SB — DL +.B -XT1 242
+.B -XT1 252 A SB — DL 252
+.B -XT1 262 A SB — DL 262

241 A — DL 241

ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1 S =H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05 S2
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS	998574-000501 (3) W92210-L1965-S055-A Sheet 2+
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: =H05 / S / S / 2

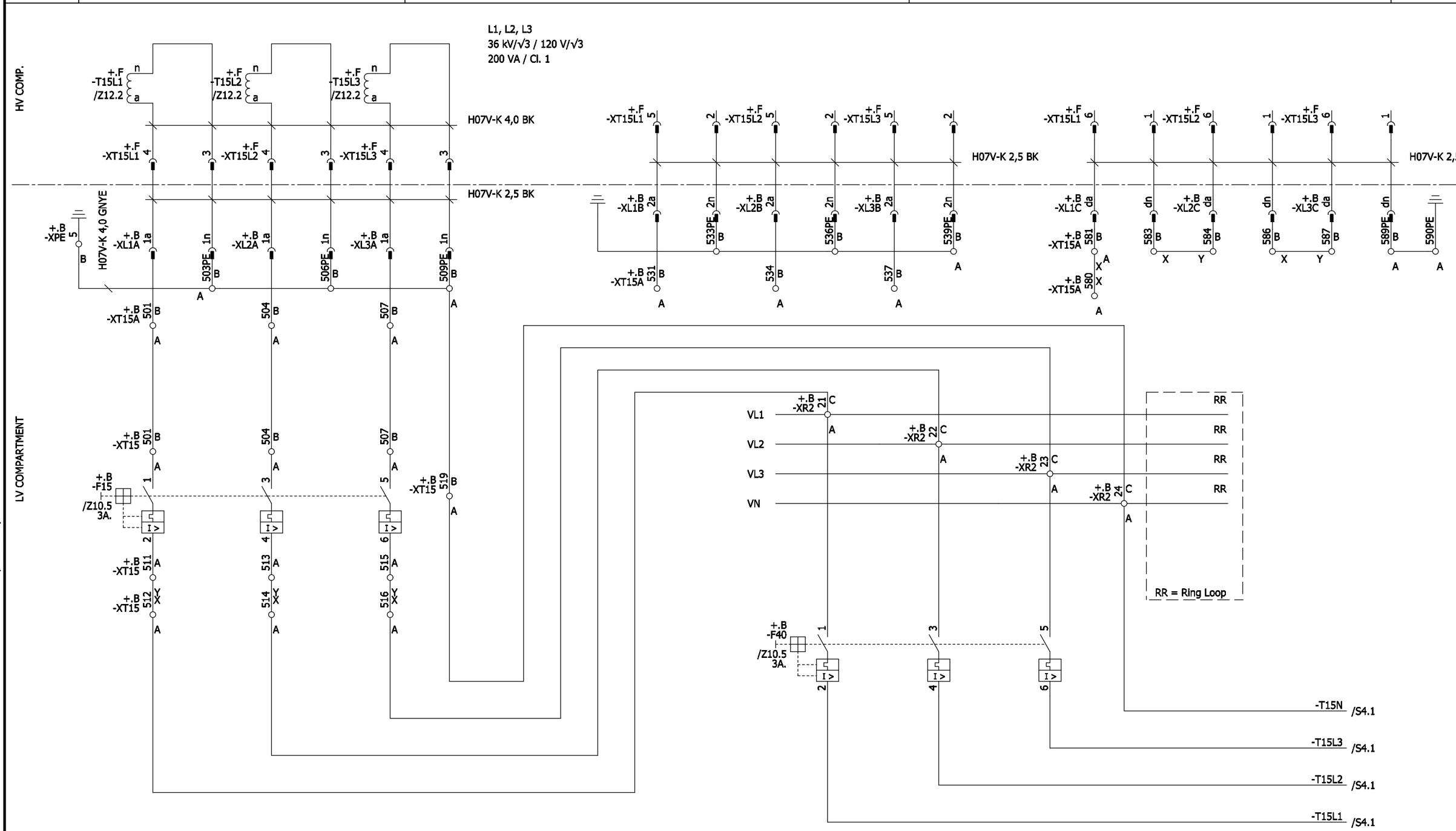
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

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

SECONDARY WINDING OF BUSBAR VOLTAGE TRAFO (110V)

FROM AC. BUSWIRE VOLTAGE (INCOMING FEEDER)

FOR METERING



ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / S / 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 library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

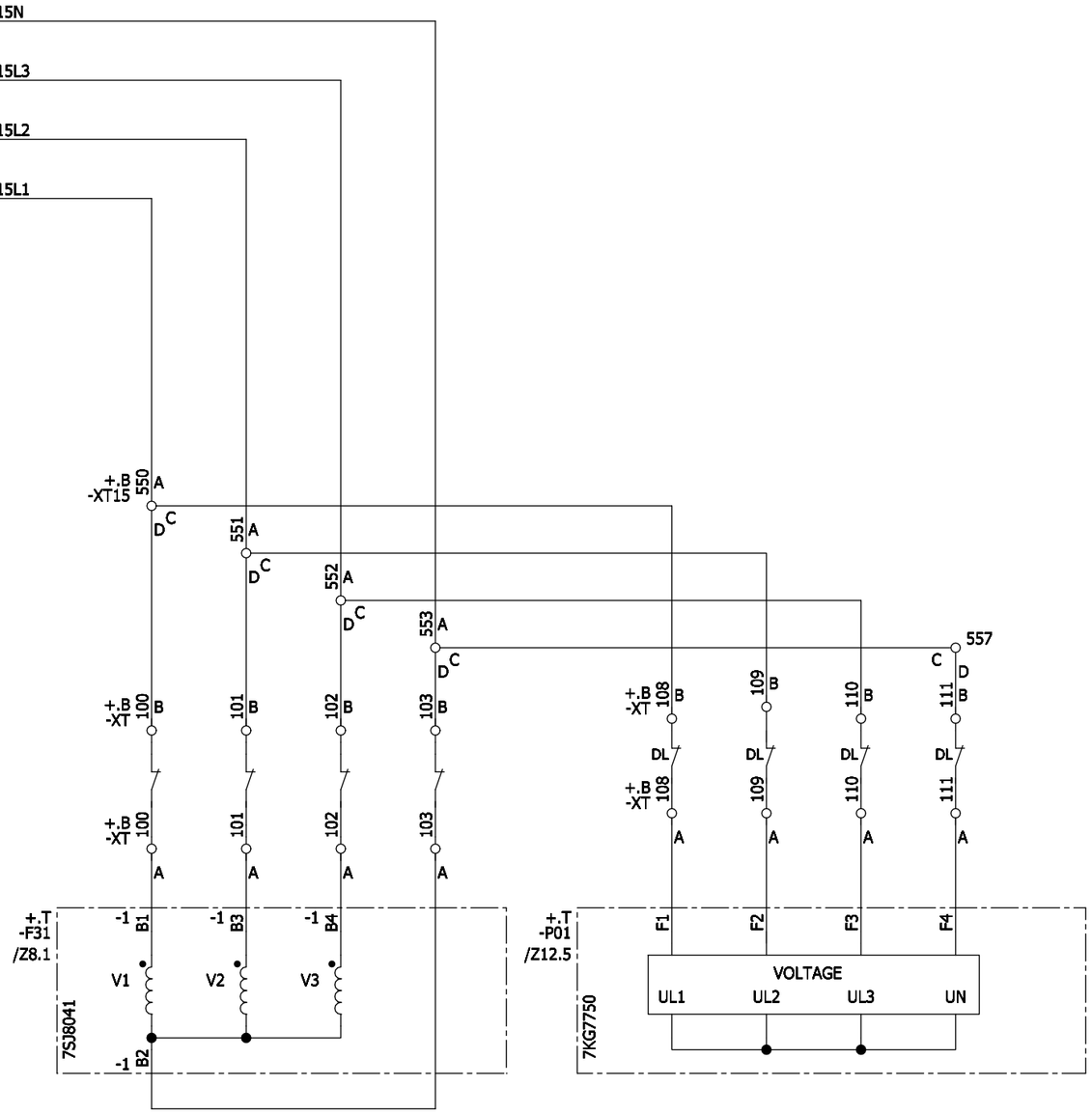
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram

=HZ02.3.1	S	=H05	
		+H05	S3
998574-000501	(3) W92210-L1965-S055-A		Sheet 3+
			5 Sh.

SECONDARY WINDING OF BUSBAR VOLTAGE TRAFO

FROM AC. BUSWIRE VOLTAGE (INCOMING FEEDER)

FOR PROTECTION | FOR METERING



ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / S / 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:

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

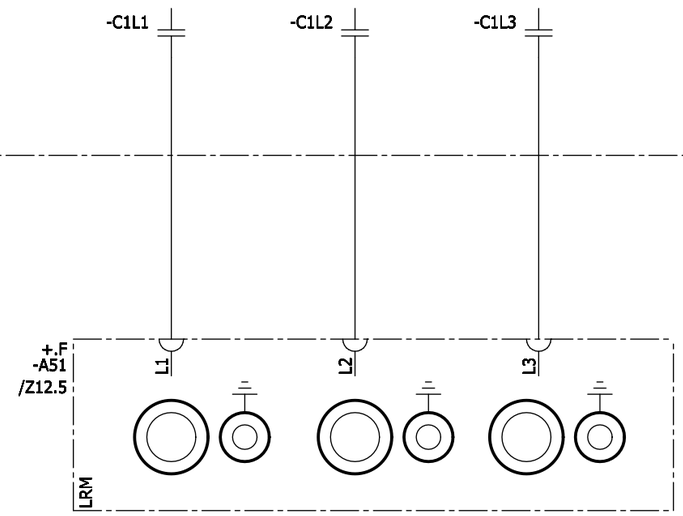
8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
TRANSFORMER CIRCUITS
Circuit diagram

=HZ02.3.1 | S | =H05 | +H05 | S4

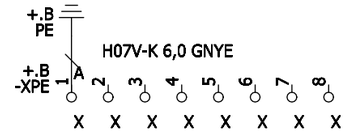
998574-000501 | (3) W92210-L1965-S055-A | Sheet 4+ 5 Sh.

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	=HZ02.3.1	S	=H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT			+H05 S5
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CAPDIS-S1+	998574-000501	(3) W92210-L1965-S055-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: =H05 / S / Z / 1

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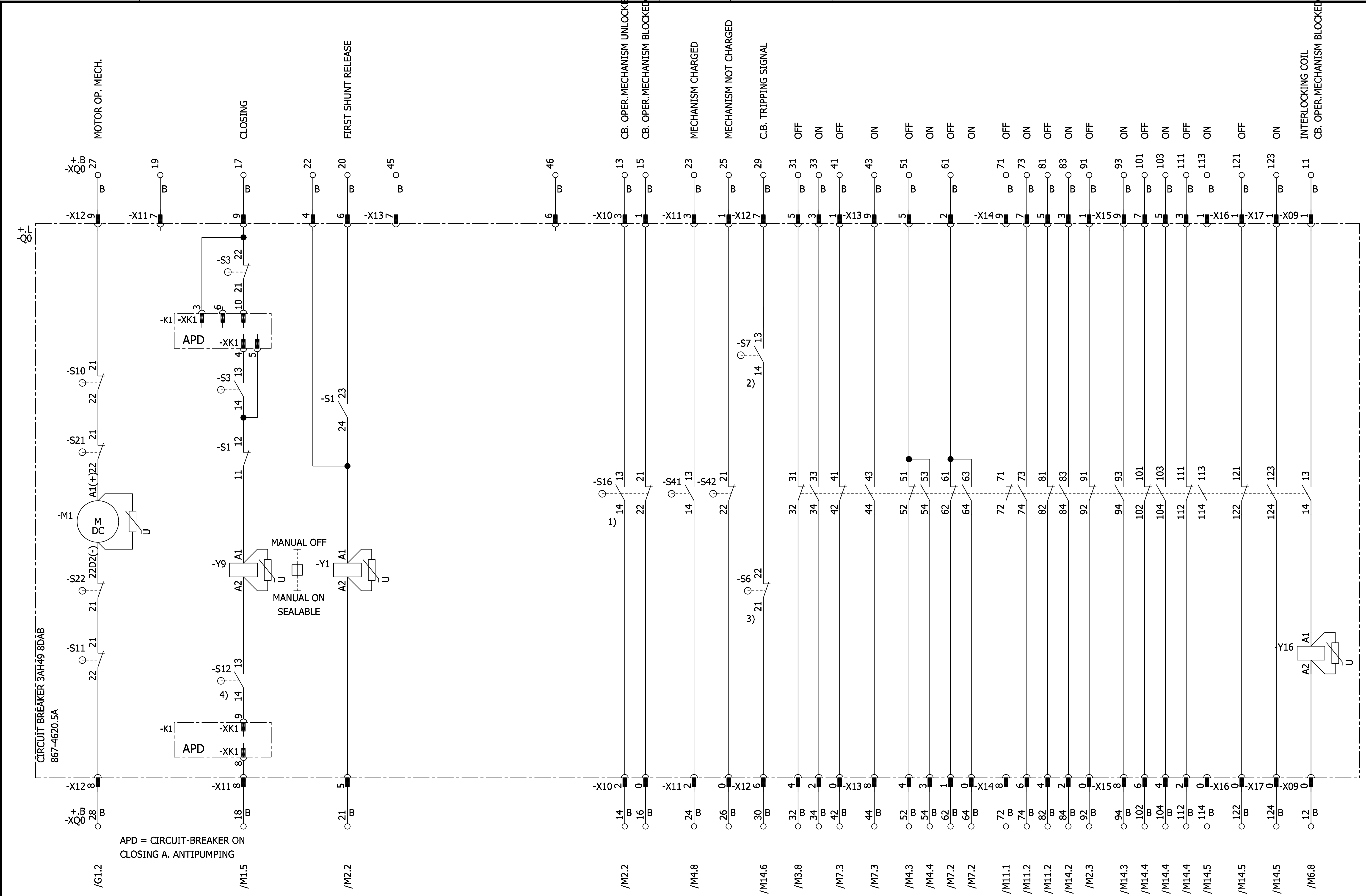
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

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



MOTOR OP. MECH.
CLOSING
FIRST SHUNT RELEASE
CB. OPER.MECHANISM UNLOCKED
CB. OPER.MECHANISM BLOCKED
MECHANISM CHARGED
MECHANISM NOT CHARGED
C.B. TRIPPING SIGNAL
OFF
ON
INTERLOCKING COIL
CB. OPER.MECHANISM BLOCKED
+.B
-XQ0
+.L
-Q0
-X12
-X11
-X13
-X10
-X14
-X15
-X16
-X17
-X09
-S3
-K1
-XK1
APD
-S10
-S21
-S1
-M1
M
DC
A1(+)
D2(-)
-S22
-S11
-Y9
-Y1
MANUAL OFF
MANUAL ON
SEALABLE
-S12
-S16
-S41
-S42
-S7
-S6
-Y16
CIRCUIT BREAKER 3AH49 8DAB
867-4620.5A
APD = CIRCUIT-BREAKER ON
CLOSING A. ANTIPUMPING
/G1.2
/M1.5
/M2.2
/M4.8
/M14.6
/M3.8
/M7.3
/M4.3
/M4.4
/M7.2
/M11.1
/M11.2
/M14.2
/M2.3
/M14.3
/M14.4
/M14.5
/M6.8

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

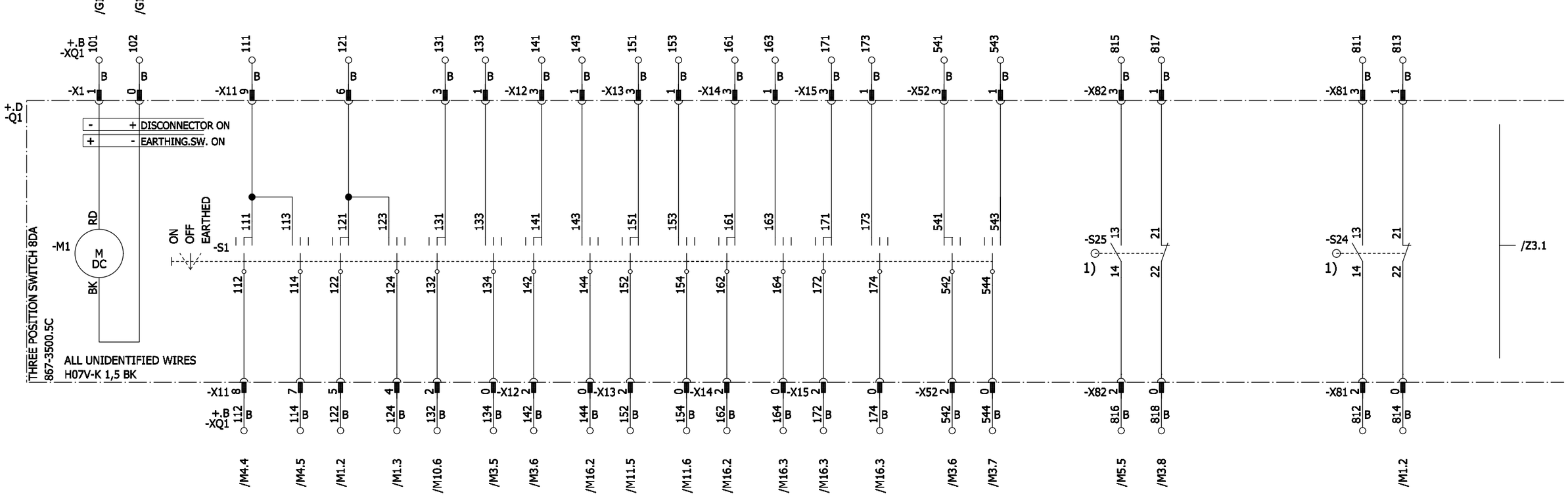
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT
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

=HZ02.3.1	S	=H05	
		+H05	Z1
			Sheet 1+
998574-000501	(3) W92210-L1965-S055-A		12 Sh.

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
FEEDER w. BB VT
THREE POSITION SWITCH
Circuit diagram

=HZ02.3.1 | S | =H05 | +H05 | Z2

998574-000501 | (3) W92210-L1965-S055-A | Sheet 2+ | 12 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / Z / 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:

EARTHING SWITCH

OPEN CLOSED | OPEN CLOSED | OPEN CLOSED | OPEN CLOSED | OPEN CLOSED | OPEN CLOSED

+.B -XQ1 511 521 531 533 551 553 561 563 571 573

-X51 9 6 3 1 -X53 3 1 -X54 3 1 -X55 3 1

+.D 867-3500.5C
-Q1 8DA

/Z2.8

ON OFF EARTHED -S1

511 513 521 523 531 533 551 553 561 563 571 573

512 514 522 524 532 534 552 554 562 564 572 574

ALL UNIDENTIFIED WIRES
H07V-K 1,5 BK

-X51 8 7 5 4 2 0 -X53 2 0 -X54 2 0 -X55 2 0

+.B -XQ1 512 514 522 524 532 534 552 554 562 564 572 574

/M4.6 /M4.6 /M1.2 /M1.3 /M1.4 /M6.8 /M11.7 /M11.7 /M16.6 /M16.6 /M16.6 /M16.7

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

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
FEEDER w. BB VT
THREE POSITION SWITCH
Circuit diagram

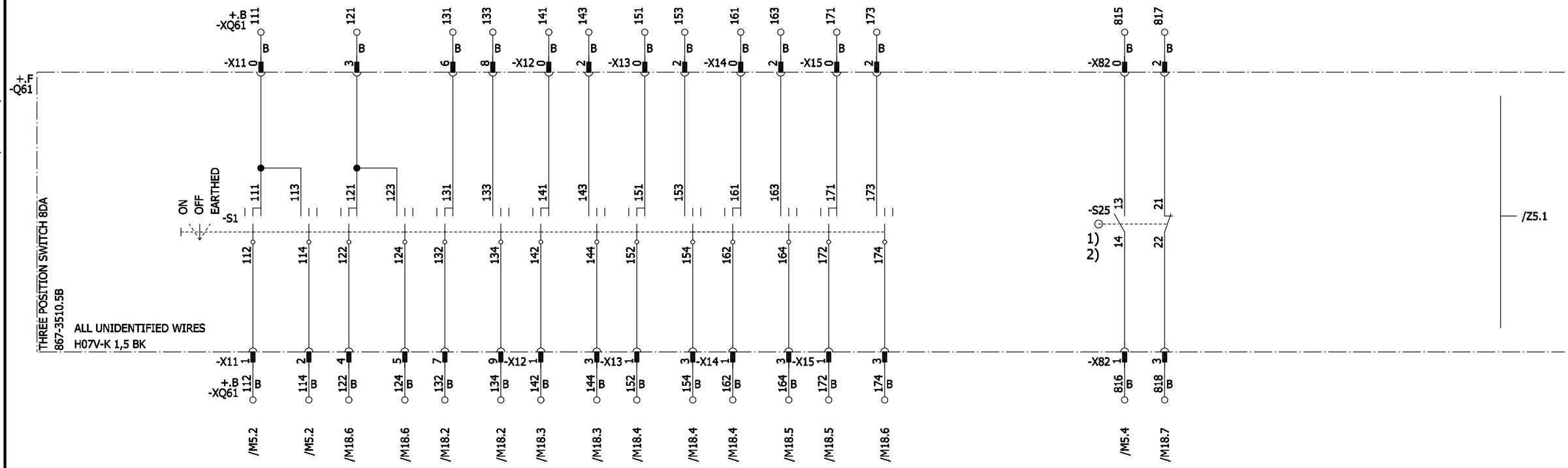
=HZ02.3.1 | S | =H05 | +H05 | Z3

998574-000501 | (3) W92210-L1965-S055-A | Sheet 3+ | 12 Sh.

DISCONNECTOR

	OPEN	CLOSED
	OPEN	CLOSED
	OPEN	CLOSED
	OPEN	CLOSED
	OPEN	CLOSED
	OPEN	CLOSED
	OPEN	CLOSED

OPERATING KEY
INSERTED
NOT PLUGGED



1) SHOWN WITH LEVER NOT INSERTED

2) MOUNTING LOCATION AT CONTROL GATE

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
FEEDER w. BB VT
THREE POSITION SWITCH
Circuit diagram

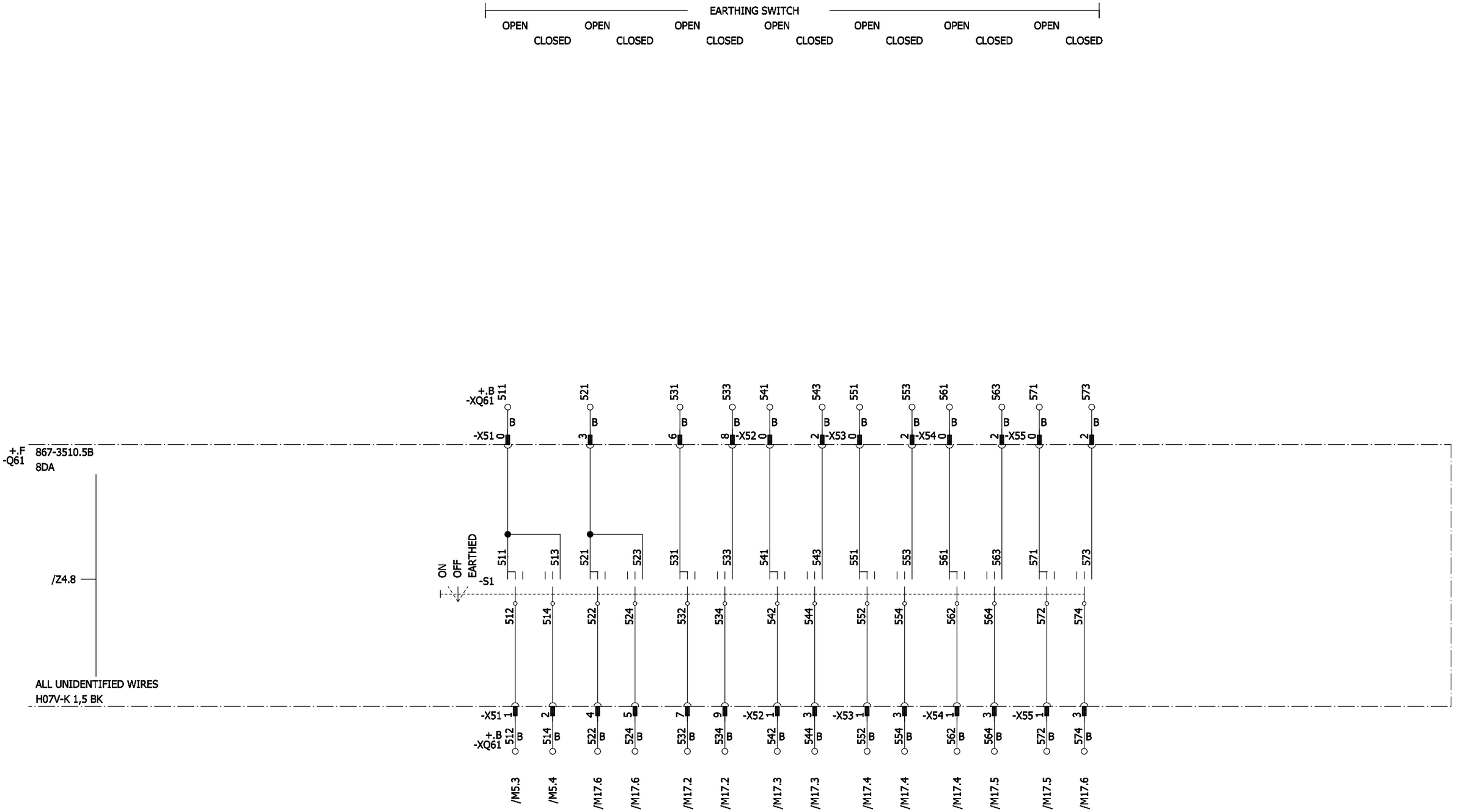
=HZ02.3.1 | S | =H05 | +H05 | Z4

998574-000501 | (3) W92210-L1965-S055-A | Sheet 4+ | 12 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / Z / 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:



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

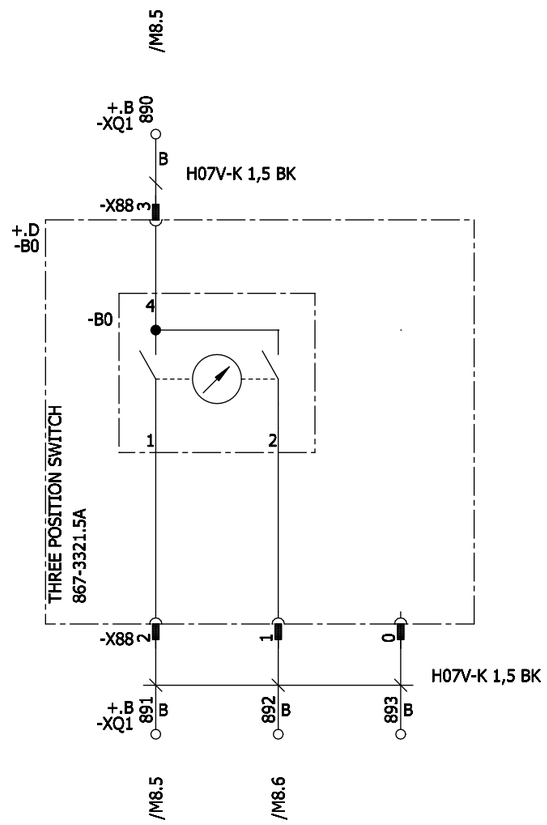
				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER w. BB VT THREE POSITION SWITCH Circuit diagram
				Drawn	Herrmann			
A	change PCMI II	29.04.21	HE	Appr.	Jacobi			
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		

=HZ02.3.1 | S | =H05 / +H05 | Z5
998574-000501 | (3) W92210-L1965-S055-A | Sheet 5+ / 12 Sh.

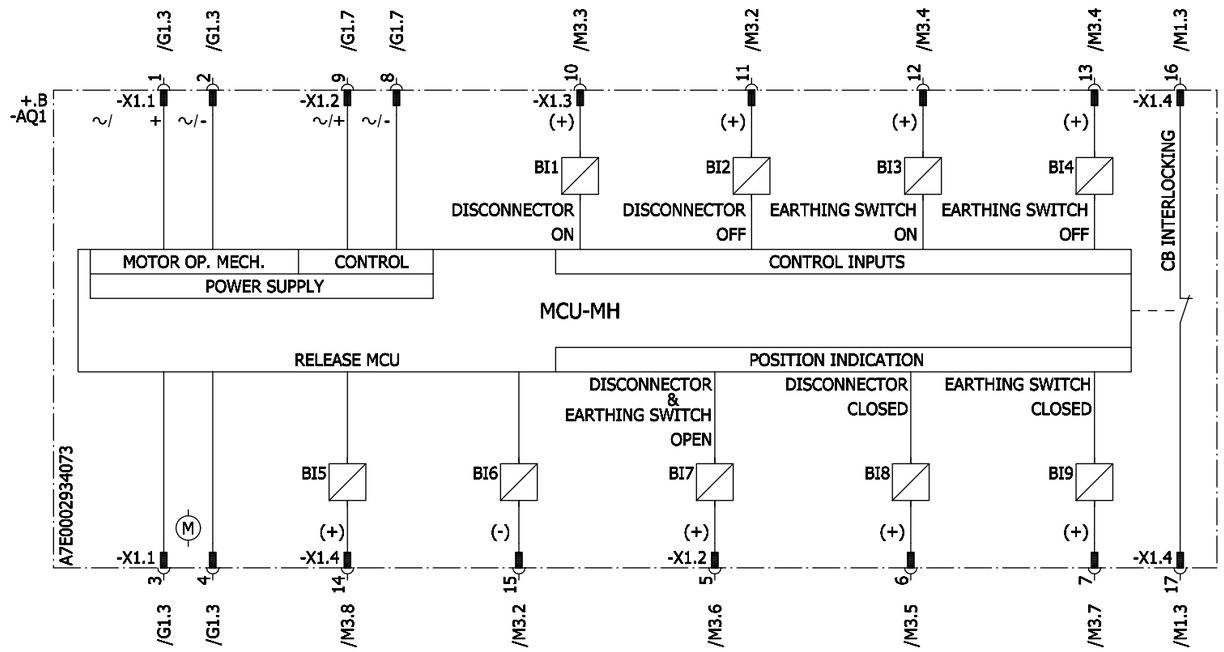
GAS PRESSURE MONITORING
CIRCUIT BREAKER -Q0
P< P>

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	=HZ02.3.1	S =H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT		+H05 Z6
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		VOIS +	998574-000501	(3) W92210-L1965-S055-A Sheet 6+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		12 Sh.



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

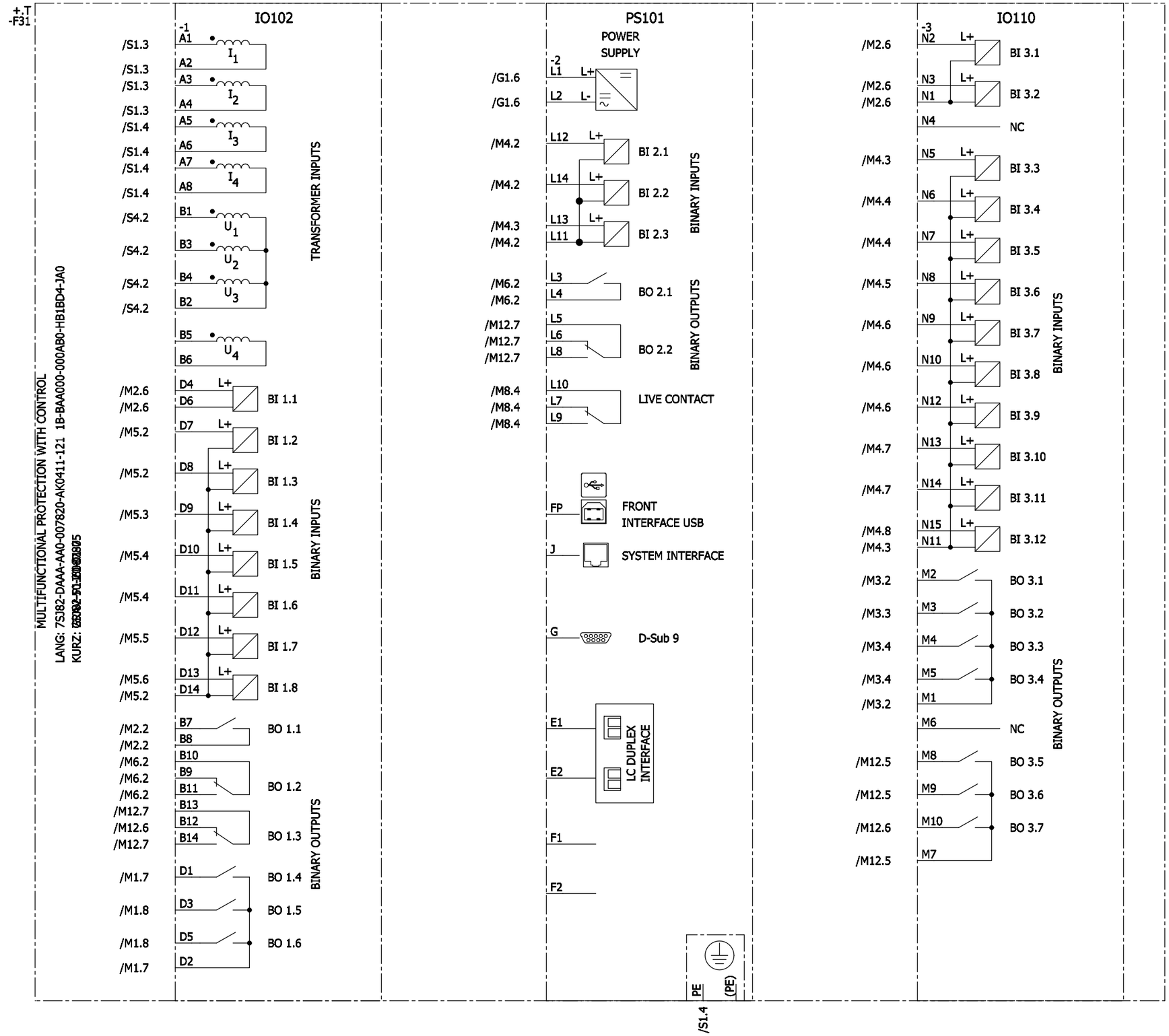
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2

Archive: =H05 / S / Z / 7

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1 S =H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05 Z7
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		PROTECTION DEVICE	998574-000501 (3) W92210-L1965-S055-A Sheet 7+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	12 Sh.



ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / Z / 8

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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

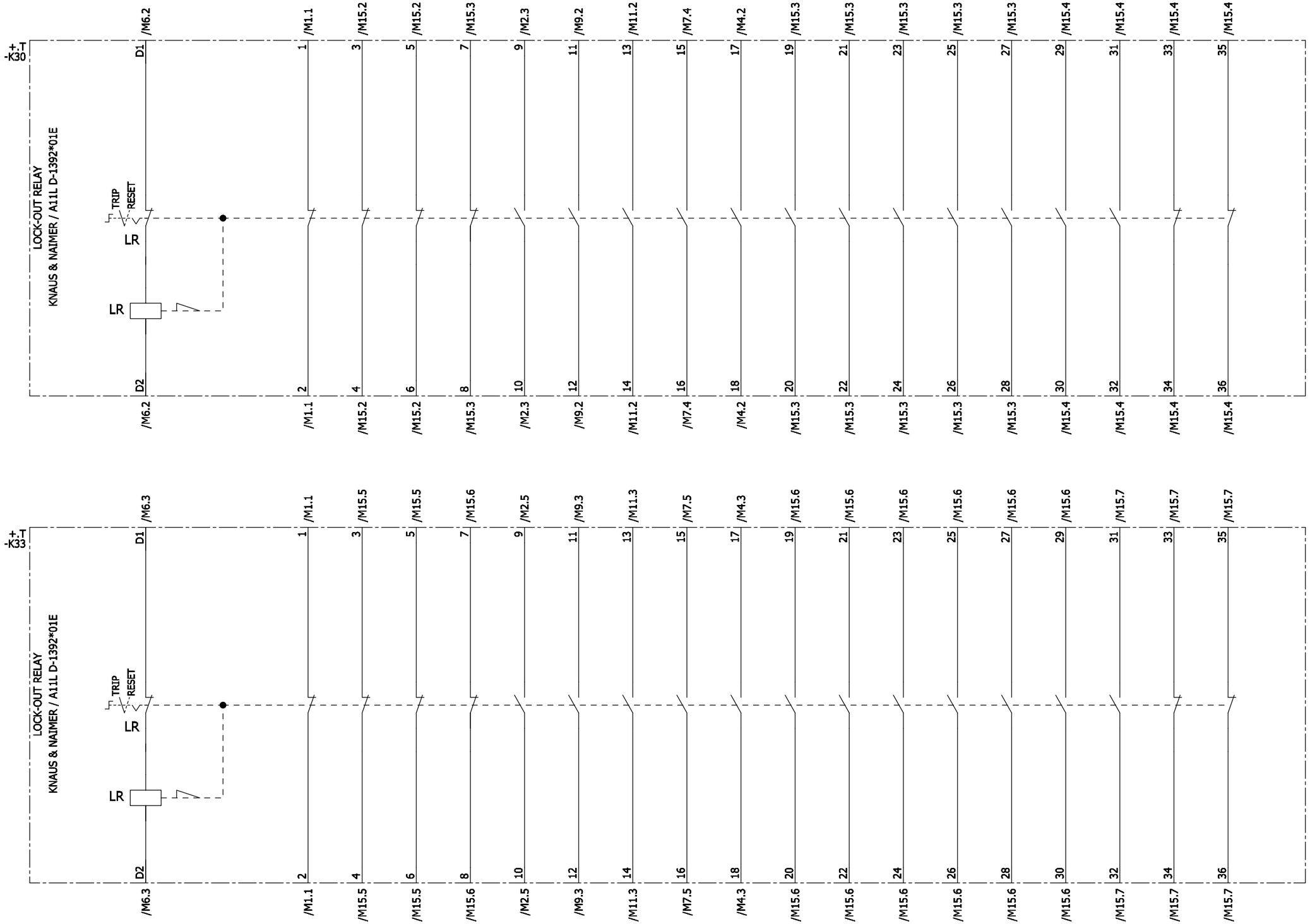
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1 S =H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT	+H05 Z8
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501 (3) W92210-L1965-S055-A Sheet 8+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	12 Sh.

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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2

Archive: =H05 / S / Z / 9



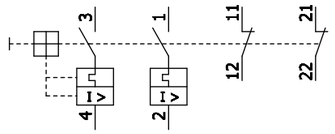
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1	S	=H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT			+H05 Z9
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501	(3) W92210-L1965-S055-A	Sheet 9+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			12 Sh.

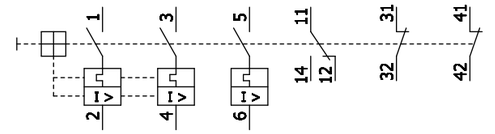
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / Z / 10

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

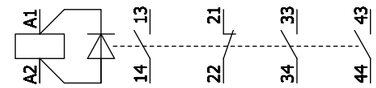
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:



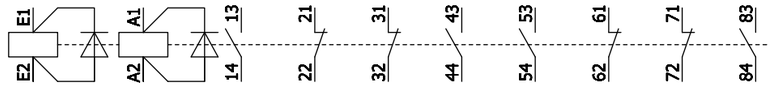
5SY5204-7 +.B 2-pol, C 4A -F10 5ST3012 2NC CB. MOTOR DRIVE	/G1.2	/G1.2	/M7.6	/M8.2
5SY5206-7 +.B 2-pol, C 6A -F20 5ST3012 2NC CONTROL/PROTECTION	/G1.5	/G1.5	/M9.5	
5SY5202-7 +.B 2-pol, C 2A -F11 5ST3012 2NC TPS. MOTOR DRIVE	/G1.3	/G1.3	/M7.6	/M8.2



3RV1611-1DG14 +.B 3RV2901-1C -F40 3A PROTECTION/METERING	/S3.5	/S3.6	/S3.6		/M7.8	/M8.3
3RV1611-1DG14 +.B 3RV2901-1C -F15 3A PROTECTION/METERING	/S3.2	/S3.2	/S3.3	/M7.8	/M11.8	/M8.3



3RH2131-1BG40 +.B 3RT2916-1DG00 -K1 125V DC CB. OFF EXTERNAL	/M6.4	/M1.6			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K2 125V DC CB. ON EXTERNAL	/M6.4	/M1.6		/M1.7	
3RH2131-1BG40 +.B 3RT2916-1DG00 -K50 125V DC MCB. TRIP	/M8.2	/M9.5			/M4.6
3RH2131-1BG40 +.B 3RT2916-1DG00 -K51 125V DC VT MCB. TRIP	/M8.3	/M9.5			/M4.7
3RH2131-1BG40 +.B 3RT2916-1DG00 -K52 125V DC LIVE STATUS CONTACTS	/M8.4	/M9.7			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K53 125V DC SF6-GAS ALARM "LOW"	/M8.5			/M10.2	/M4.7
3RH2131-1BG40 +.B 3RT2916-1DG00 -K1A 125V DC SF6-GAS ALARM "LOW"	/M6.5	/M3.3			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K1E 125V DC SF6-GAS ALARM "LOW"	/M6.6	/M3.3			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K5A 125V DC SF6-GAS ALARM "LOW"	/M6.6	/M3.4			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K5E 125V DC SF6-GAS ALARM "LOW"	/M6.7	/M3.5			



3RH2422-1BG40 +.B 3RH2911-1FA22 -K40 2 x 3RT2916-1DG00 125V DC CB. STATUS "OFF/ON"	/M7.2	/M7.2	/M13.3	/M13.3	/M13.4	/M13.4	/M13.5	/M13.5	/M13.5	/M13.6

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
FEEDER w. BB VT
SECONDARY EQUIPMENT
Circuit diagram

=HZ02.3.1	S	=H05		
		+H05	Z10	
998574-000501	(3) W92210-L1965-S055-A		Sheet 10+ 12 Sh.	

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / Z / 11

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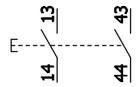
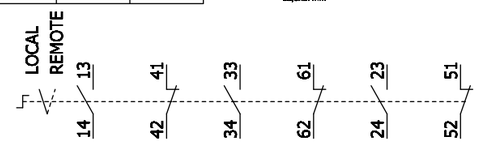
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

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



	3SU1000-0AB20-0AA0	/M1.4	/M1.6	CB ON 12,5x27mm
+.T	RED			
-S0E	3SU1500-0AA10-0AA0			
	3SU1400-1AA10-1DA0			
	3SU1900-0AN10-0AA0			
	PRINT-3SU-27-12-01-04			
	3SU1000-0AB40-0AA0	/M1.5		CB OFF 12,5x27mm
+.T	GREEN			
-S0A	3SU1500-0AA10-0AA0			
	3SU1400-1AA10-1DA0			
	3SU1900-0AN10-0AA0			
	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						

	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	/M7.6	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		

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
FEEDER w. BB VT
SECONDARY EQUIPMENT
Circuit diagram

=HZ02.3.1	S	=H05	
		+H05	Z11
998574-000501	(3) W92210-L1965-S055-A		Sheet 11+ 12 Sh.

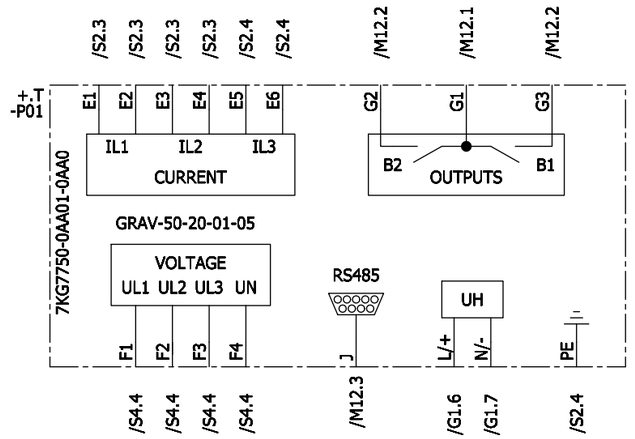
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H05 / S / Z / 12

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:

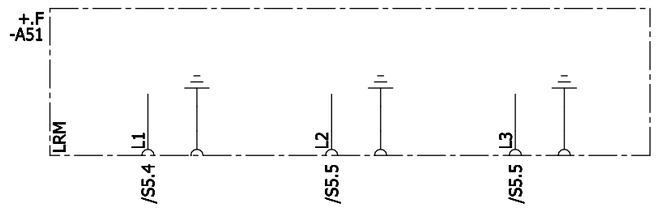
a n

4MT2 +.F 36kV/√3 / 120V/√3 -T15L1 200 VA / Cl. 1	/S3.1
4MT2 +.F 36kV/√3 / 120V/√3 -T15L2 200 VA / Cl. 1	/S3.2
4MT2 +.F 36kV/√3 / 120V/√3 -T15L3 200 VA / Cl. 1	/S3.3



1S1 2S1
1S2 2S2

4MC4_30 +.F 1st Core= 800/5A; 15VA Cl. 5P20 -T1L1 2nd Core= 800/5A; 30VA Cl. 1FS10	/S1.3	/S2.3
4MC4_30 +.F 1st Core= 800/5A; 15VA Cl. 5P20 -T1L2 2nd Core= 800/5A; 30VA Cl. 1FS10	/S1.3	/S2.3
4MC4_30 +.F 1st Core= 800/5A; 15VA Cl. 5P20 -T1L3 2nd Core= 800/5A; 30VA Cl. 1FS10	/S1.4	/S2.4



				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.3.1	S	=H05
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER w. BB VT			+H05 Z12
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501	(3) W92210-L1965-S055-A	Sheet 12-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			12 Sh.

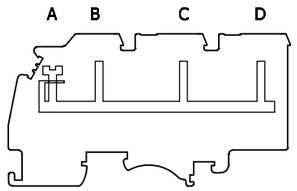
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBKLP2-13
Archive: =H05 / V / / / 1

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:

	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



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
		-XR2				
	○	11	=H00/G1.6	=H04 +.B -XR2 :11 D	-F10 :3	=H06 +.B -XR2 :11 B
	○	12	=H00/G1.6	=H04 +.B -XR2 :12 D	-F10 :1	=H06 +.B -XR2 :12 B
	○	13	=H00/G1.6	=H04 +.B -XR2 :13 D	-F20 :3	=H06 +.B -XR2 :13 B
	○	14	=H00/G1.6	=H04 +.B -XR2 :14 D	-F20 :1	=H06 +.B -XR2 :14 B
	○	15	=H00/G1.6	=H04 +.B -XR2 :15 D	-XC30 :389 D	=H06 +.B -XR2 :15 B
	○	16	=H00/G1.6	=H04 +.B -XR2 :16 D	-XC30 :390 D	=H06 +.B -XR2 :16 B
-F40 :1	○	21	=H00/G1.6	=H04 +.B -XR2 :21 D	-XT15 :512 A	=H06 +.B -XR2 :21 B
-F40 :3	○	22	=H00/G1.6	=H04 +.B -XR2 :22 D	-XT15 :514 A	=H06 +.B -XR2 :22 B
-F40 :5	○	23	=H00/G1.6	=H04 +.B -XR2 :23 D	-XT15 :516 A	=H06 +.B -XR2 :23 B
-XT15 :553 A	○	24	=H00/G1.6	=H04 +.B -XR2 :24 D	-XT15 :519 A	=H06 +.B -XR2 :24 B
	○	25	=H00/G1.6	=H04 +.B -XR2 :25 D	-F11 :3	=H06 +.B -XR2 :25 B
	○	26	=H00/G1.6	=H04 +.B -XR2 :26 D	-F11 :1	=H06 +.B -XR2 :26 B
	○	31	=H00/G1.6	=H04 +.B -XR2 :31 D	-XC30 :367 D	=H06 +.B -XR2 :31 B
	○	32	=H00/G1.6	=H04 +.B -XR2 :32 D	-XC30 :370 D	=H06 +.B -XR2 :32 B
	○	33	=H00/G1.6	=H04 +.B -XR2 :33 D	-XC30 :381 D	=H06 +.B -XR2 :33 B
	○	34	=H00/G1.6	=H04 +.B -XR2 :34 D	-XC30 :384 D	=H06 +.B -XR2 :34 B
	○	35	=H00/G1.6	=H04 +.B -XR2 :35 D	-XC30 :387 D	=H06 +.B -XR2 :35 B
	○	36	=H00/G1.6	=H04 +.B -XR2 :36 D	-XC30 :388 D	=H06 +.B -XR2 :36 B
	○	41	=H00/G7.6	=H04 +.B -XR2 :41 D		=H06 +.B -XR2 :41 B
	○	42	=H00/G7.6	=H04 +.B -XR2 :42 D		=H06 +.B -XR2 :42 B
	○	43	=H00/G7.6	=H04 +.B -XR2 :43 D		=H06 +.B -XR2 :43 B
	○	44	=H00/G7.6	=H04 +.B -XR2 :45 D	-XQ1 :131 D	
	○	45	=H00/G7.6		-XQ1 :132 D	=H06 +.B -XR2 :44 B
	○	46	=H00/G7.6	=H04 +.B -XR2 :46 D		=H06 +.B -XR2 :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
Drawn Herrmann
Appr. Jacobi
Norm
Orig./Prep.for/Prep.by

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XR2
Connection table

=HZ02.3.1 V =H05 +.B /1
998574-000501 (3) W92210-L1965-S058-A
Sheet 1+ 17 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-11_I
Archive: =H05 / V / / / 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:

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

No. of Terminals (in total) : 20

-XT1

Termination A Destination Item designation			Term.-no.	Cross-ref.	Termination B Destination Item designation		
	-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	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	241	/S2.3			
+.T	-P01	:E2	242	/S2.3			
			251	/S2.3			
+.T	-P01	:E4	252	/S2.3			
			261	/S2.4			
+.T	-P01	:E6	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

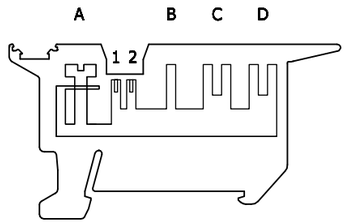
8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XT1
Connection table

=HZ02.3.1 V =H05 +.B /2

998574-000501 (3) W92210-L1965-S058-A

Sheet 2+
17 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: 301-561

Terminal block type: VBSTB 4-FS

Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 167

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			-XQ0	:23 C	+.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			-XQ61	:111 C		-XQ1	:533 C
					308	/G1.5		+.T	-F31-2	:L3			
					309	/G1.5		+.T	-K30	:15			
					310	/G1.5			-F10	:11	+.T	-K33	:15
					311	/G1.5			-F10	:21		-F40	:31
					312	/M8.4			-XQ1	:890 C	+.T	-F31-2	:L7
		-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			-XQ0	:14 D		-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
		-XQ0	:12 D		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	-H40	:X2
					333	/M8.2			-K51	:A2		-K50	:A2
					334	/M8.4						-K52	:A2
					335	/M8.5			-K53	:A2			
					336	/M8.6							
					337	/M8.7							
					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
					343	/M1.6		+.T	-F31-2	:L12		-K1	:13
					344	/M1.4			-XQ1	:522 D	+.T	-S0E	:14
					345	/M1.6		+.T	-F31-1	:D1		-K2	:14
					347	/M1.6		+.T	-S0A	:14		-K1	:14
	+.T	-F31-1	:D3		348	/M1.8		+.T	-F31-1	:B8		-XQ0	:20 D
	+.T	-F31-1	:D6		349	/M2.3		+.T	-K33	:10	+.T	-K30	:10
=XX	+XX	-XX	:XX		351	/M1.1					+.T	-K30	:2

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:

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H05 / V / / / 3

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

Orig./Prep.for/Prep.by

Vena new energy company / TW
Siemens Limited (Taipei)
33KV MAIN SUBSTATION

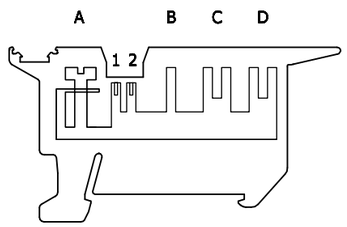
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XC30
Connection table

=HZ02.3.1 | V | =H05 | +.B | /3

998574-000501 | (3) W92210-L1965-S058-A | Sheet 3+ | 17 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: 301-561
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 167

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					
=XX +XX -XX :XX		352	/M1.1			-XQ1 :814 C
		353	/M1.7		+.T -S20 :34	-K2 :33
		355	/M1.6		+.T -S20 :33	-XQ0 :18 D
		356	/M3.3		+.T -S20 :24	-K1A :13
		357	/M6.2		+.T -F31-2 :L4	+.T -K30 :D1
=XX +XX -XX :XX		358	/M6.3		+.T -F31-1 :B10	+.T -K33 :D1
		360	/M7.4		+.T -H30 :X1	+.T -K30 :16
		361	/M7.5			+.T -K33 :16
		362	/M7.6		-F10 :12	+.T -H40 :X1
		363	/M7.8		-F40 :32	+.T -H50 :X1
		364	/M8.3		-K51 :A1	-F40 :42
		365	/M8.2		-K50 :A1	-F10 :22
		366	/M8.4		+.T -F31-2 :L10	-K52 :A1
		367	/M9.2		+.T -K30 :11	-XR2 :31 C
		368	/M9.3			+.T -K33 :11
		369	/M9.2			+.T -K30 :12
		370	/M9.3		+.T -K33 :12	-XR2 :32 C
-K1A :14		371	/M3.2		+.T -F31-3 :M2	-AQ1-X1.3 :11
-K1E :14		372	/M3.3		+.T -F31-3 :M3	-AQ1-X1.3 :10
-K5A :14		373	/M3.4		+.T -F31-3 :M4	-AQ1-X1.3 :13
-K5E :14		374	/M3.4		+.T -F31-3 :M5	-AQ1-X1.3 :12
		375	/M4.6		-K50 :44	+.T -F31-3 :N12
		376	/M4.7		-K51 :44	+.T -F31-3 :N13
		377	/M4.7		-K53 :44	+.T -F31-3 :N14
		378	/M5.6			+.T -F31-1 :D13
		379	/M5.6			
		380	/M5.7			
		381	/M9.5		-K50 :13	-XR2 :33 C
		382	/M9.5		-F20 :11	-K51 :13
		383	/M9.6			
		384	/M9.5		-K50 :14	-XR2 :34 C
		385	/M9.5		-F20 :12	-K51 :14
		386	/M9.6			
		387	/M9.7		-K52 :13	-XR2 :35 C
		388	/M9.7		-K52 :14	-XR2 :36 C
		389	/M10.2		-K53 :33	-XR2 :15 C
		390	/M10.2		-K53 :34	-XR2 :16 C
		391	/M11.3		+.T -K33 :13	-XQ0 :82 C
		392	/M11.2		+.T -K33 :14	+.T -K30 :14
		393	/M12.1		+.T -P01 :G1	

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

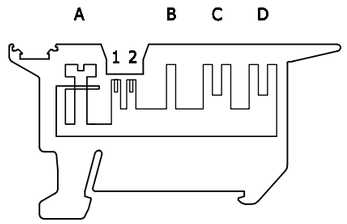
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XC30
Connection table

=HZ02.3.1 | V | =H05 | +.B | /4

998574-000501 | (3) W92210-L1965-S058-A | Sheet 4+ | 17 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: 301-561
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 167

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					
		394	/M12.2		+.T -P01 :G2	
		395	/M12.2		+.T -P01 :G3	
		397	/M2.6			+.T -F31-3 :N3
		400	/M15.2			+.T -K30 :3
		401	/M15.2			+.T -K30 :5
		402	/M15.3			+.T -K30 :7
		404	/M15.3			+.T -K30 :19
		405	/M15.3			+.T -K30 :21
		406	/M15.3			+.T -K30 :23
		407	/M15.3			+.T -K30 :25
		408	/M15.3			+.T -K30 :27
		409	/M15.4			+.T -K30 :29
		410	/M15.4			+.T -K30 :31
		411	/M15.4			+.T -K30 :33
		412	/M15.4			+.T -K30 :35
		413	/M15.2			+.T -K30 :4
		414	/M15.2			+.T -K30 :6
		415	/M15.3			+.T -K30 :8
		417	/M15.3			+.T -K30 :20
		418	/M15.3			+.T -K30 :22
		419	/M15.3			+.T -K30 :24
		420	/M15.3			+.T -K30 :26
		421	/M15.3			+.T -K30 :28
		422	/M15.4			+.T -K30 :30
		423	/M15.4			+.T -K30 :32
		424	/M15.4			+.T -K30 :34
		425	/M15.4			+.T -K30 :36
		426	/M15.5			+.T -K33 :3
		427	/M15.5			+.T -K33 :5
		428	/M15.6			+.T -K33 :7
		430	/M15.6			+.T -K33 :19
		431	/M15.6			+.T -K33 :21
		432	/M15.6			+.T -K33 :23
		433	/M15.6			+.T -K33 :25
		434	/M15.6			+.T -K33 :27
		435	/M15.6			+.T -K33 :29
		436	/M15.7			+.T -K33 :31
		437	/M15.7			+.T -K33 :33
		438	/M15.7			+.T -K33 :35
		439	/M15.5			+.T -K33 :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

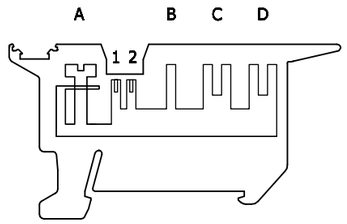
Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XC30
Connection table

=HZ02.3.1 V =H05 +.B /5
998574-000501 (3) W92210-L1965-S058-A Sheet 5+ 17 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: 301-561
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 167

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					
		440	/M15.5			+.T -K33 :6
		441	/M15.6			+.T -K33 :8
		443	/M15.6			+.T -K33 :20
		444	/M15.6			+.T -K33 :22
		445	/M15.6			+.T -K33 :24
		446	/M15.6			+.T -K33 :26
		447	/M15.6			+.T -K33 :28
		448	/M15.6			+.T -K33 :30
		449	/M15.7			+.T -K33 :32
		450	/M15.7			+.T -K33 :34
		451	/M15.7			+.T -K33 :36
=EXT +I/O PANEL -XX :XX		452	/M13.3			-K40 :13
=EXT +I/O PANEL -XX :XX		453	/M13.3			-K40 :21
		454	/M13.4			-K40 :31
		455	/M13.4			-K40 :43
		456	/M13.5			-K40 :53
		457	/M13.5			-K40 :61
		458	/M13.5			-K40 :71
		459	/M13.6			-K40 :83
=EXT +I/O PANEL -XX :XX		460	/M13.3			-K40 :14
=EXT +I/O PANEL -XX :XX		461	/M13.3			-K40 :22
		462	/M13.4			-K40 :32
		463	/M13.4			-K40 :44
		464	/M13.5			-K40 :54
		465	/M13.5			-K40 :62
		466	/M13.5			-K40 :72
		467	/M13.6			-K40 :84
=PAS +Panel -XX :XX		468	/M6.4			-K1 :A1
=PAS +Panel -XX :XX		469	/M6.4			-K2 :A1
		470	/M12.5			
		471	/M12.5			+.T -F31-3 :M7
		472	/M12.5			+.T -F31-3 :M8
		473	/M12.5			+.T -F31-3 :M9
		474	/M12.6			+.T -F31-3 :M10
		476	/M12.6			
		477	/M12.7			+.T -F31-1 :B13
		478	/M12.6			+.T -F31-1 :B12
		479	/M12.7			+.T -F31-2 :L5
		480	/M12.7			+.T -F31-1 :B14
		482	/M12.7			+.T -F31-2 :L6

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

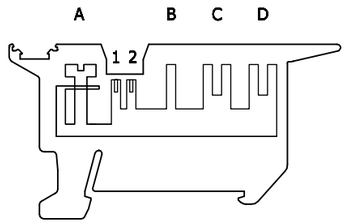
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XC30
Connection table

=HZ02.3.1 V =H05 +.B /6

998574-000501 (3) W92210-L1965-S058-A Sheet 6+ 17 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
301-561	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 167

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination				Terminal strip			Slot B Destination	Termination C Destination	Termination D Destination
Item designation				Link	Term.-no.	Cross-ref.	Item designation	Item designation	Item designation
				-XC30					
				1 2 JUMPER					
					484	/M12.7			+.T -F31-2 :L8
=PAS	+Panel	-XX	:XX		490	/M6.5			-K1A :A1
=PAS	+Panel	-XX	:XX		491	/M6.6			-K1E :A1
=PAS	+Panel	-XX	:XX		492	/M6.6			-K5A :A1
=PAS	+Panel	-XX	:XX		493	/M6.7			-K5E :A1
=H09	+.B	-XC30	:582 A		560	=H00/G13.3			-F15 :31
=H09	+.B	-XC30	:583 A		561	=H00/G13.3			-F15 :32

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: =H05 / V / / / / 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			
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

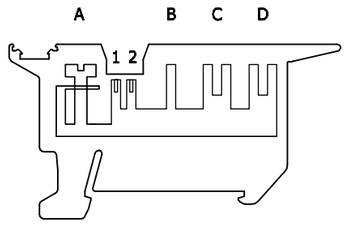
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XC30
Connection table

=HZ02.3.1 | V | =H05 | +.B | /7

998574-000501 | (3) W92210-L1965-S058-A | Sheet 7+ 17 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
11-124	VBSTB 4-FS	
		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	/M6.8	+.L -Q0-X09 :1		-XQ1 :534 D
		12	/M6.8	+.L -Q0-X09 :0		-XC30 :328 A
		13	/M2.2	+.L -Q0-X10 :3		-XQ0 :21 D
		14	/M2.2	+.L -Q0-X10 :2		-XC30 :324 C
		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	-XC30 :304 C	
		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	/M14.6	+.L -Q0-X12 :7		
		30	/M14.6	+.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	/Z1.5	+.L -Q0-X12 :3		
		34	/Z1.5	+.L -Q0-X12 :2		
		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	/M4.3	+.L -Q0-X13 :5	+.T -K33 :17	-XQ1 :111 C
		52	/M4.3	+.L -Q0-X13 :4		+.T -F31-3 :N5
		54	/M4.4	+.L -Q0-X13 :3		+.T -F31-3 :N6
		61	/M7.2	+.L -Q0-X13 :2	-XQ0 :41 D	-XQ1 :533 D
		62	/M7.2	+.L -Q0-X13 :1		-K40 :E1
		64	/M7.2	+.L -Q0-X13 :0		-K40 :A1
		71	/M11.1	+.L -Q0-X14 :9		
		72	/M11.1	+.L -Q0-X14 :8		
		73	/M11.2	+.L -Q0-X14 :7		
		74	/M11.2	+.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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H05 / V / / / 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:

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

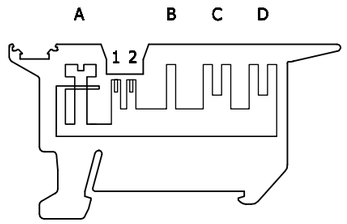
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XQ0
Connection table

=HZ02.3.1 V =H05
+.B /8
998574-000501 (3) W92210-L1965-S058-A
Sheet 8+ 17 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H05 / 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	/M11.2	+.L -Q0-X14 :5		
	⊖ □ □ ● — —	82	/M11.2	+.L -Q0-X14 :4	-XC30 :391 D	+.T -K30 :13
	⊖ □ □ ● — —	83	/M14.2	+.L -Q0-X14 :3		
	⊖ □ □ ● — —	84	/M14.2	+.L -Q0-X14 :2		
	⊖ □ □ ● — —	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	/M14.3	+.L -Q0-X15 :8		
	⊖ □ □ ● — —	101	/M14.4	+.L -Q0-X15 :7		
	⊖ □ □ ● — —	102	/M14.4	+.L -Q0-X15 :6		
	⊖ □ □ ● — —	103	/M14.4	+.L -Q0-X15 :5		
	⊖ □ □ ● — —	104	/M14.4	+.L -Q0-X15 :4		
	⊖ □ □ ● — —	111	/M14.4	+.L -Q0-X15 :3		
	⊖ □ □ ● — —	112	/M14.4	+.L -Q0-X15 :2		
	⊖ □ □ ● — —	113	/M14.5	+.L -Q0-X15 :1		
	⊖ □ □ ● — —	114	/M14.5	+.L -Q0-X15 :0		
	⊖ □ □ ● — —	121	/M14.5	+.L -Q0-X16 :1		
	⊖ □ □ ● — —	122	/M14.5	+.L -Q0-X16 :0		
	⊖ □ □ ● — —	123	/M14.5	+.L -Q0-X17 :1		
	⊖ □ □ ● — —	124	/M14.5	+.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:

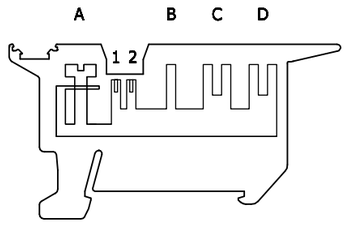
Revision	Modification	Date	Name			
				Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XQ0
Connection table

=HZ02.3.1 V =H05 +.B /9
998574-000501 (3) W92210-L1965-S058-A Sheet 9+ 17 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	/M4.4	+.D -Q1-X11 :9	-XQ0 :51 D	-XQ1 :511 D
		112	/M4.4	+.D -Q1-X11 :8		+.T -F31-3 :N7
		114	/M4.5	+.D -Q1-X11 :7		+.T -F31-3 :N8
		121	/M1.2	+.D -Q1-X11 :6		+.T -K33 :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	/M10.6	+.D -Q1-X11 :3		-XR2 :44 C
		132	/M10.6	+.D -Q1-X11 :2		-XR2 :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	/M16.2	+.D -Q1-X12 :1		
		144	/M16.2	+.D -Q1-X12 :0		
		151	/M11.5	+.D -Q1-X13 :3		
		152	/M11.5	+.D -Q1-X13 :2		
		153	/M11.6	+.D -Q1-X13 :1		
		154	/M11.6	+.D -Q1-X13 :0		
		161	/M16.2	+.D -Q1-X14 :3		
		162	/M16.2	+.D -Q1-X14 :2		
		163	/M16.2	+.D -Q1-X14 :1		
		164	/M16.3	+.D -Q1-X14 :0		
		171	/M16.3	+.D -Q1-X15 :3		
		172	/M16.3	+.D -Q1-X15 :2		
		173	/M16.3	+.D -Q1-X15 :1		
		174	/M16.3	+.D -Q1-X15 :0		
		511	/M4.6	+.D -Q1-X51 :9	-K50 :43	-XQ1 :111 D
		512	/M4.6	+.D -Q1-X51 :8		+.T -F31-3 :N9
		514	/M4.6	+.D -Q1-X51 :7		+.T -F31-3 :N10
		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	/M6.8	+.D -Q1-X51 :1	-XC30 :307 D	-XQ0 :61 D
		534	/M6.8	+.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	→
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

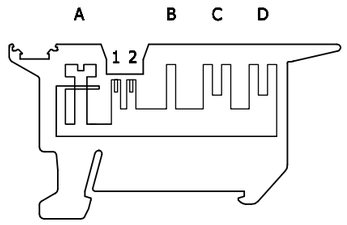
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XQ1
Connection table

=HZ02.3.1 V =H05
+.B /10
998574-000501 (3) W92210-L1965-S058-A
Sheet 10+ 17 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H05 / V / / / 11

	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

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

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	/M11.6	+.D -Q1-X53 :3		
											552	/M11.7	+.D -Q1-X53 :2		
											553	/M11.7	+.D -Q1-X53 :1		
											554	/M11.7	+.D -Q1-X53 :0		
											561	/M16.6	+.D -Q1-X54 :3		
											562	/M16.6	+.D -Q1-X54 :2		
											563	/M16.6	+.D -Q1-X54 :1		
											564	/M16.6	+.D -Q1-X54 :0		
											571	/M16.6	+.D -Q1-X55 :3		
											572	/M16.6	+.D -Q1-X55 :2		
											573	/M16.7	+.D -Q1-X55 :1		
											574	/M16.7	+.D -Q1-X55 :0		
											811	/Z2.8	+.D -Q1-X81 :3		
											812	/Z2.8	+.D -Q1-X81 :2		
											813	/M1.2	+.D -Q1-X81 :1		-AQ1-X1.4 :16
											814	/M1.2	+.D -Q1-X81 :0	-XC30 :352 D	
											815	/M5.5	+.D -Q1-X82 :3		-XQ61 :815 C
											816	/M5.5	+.D -Q1-X82 :2		+.T -F31-1 :D12
											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	/M8.6	+.D -B0-X88 :1	-XQ1 :891 C	
											893	/Z6.3	+.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

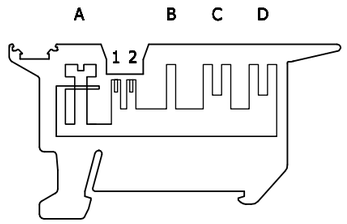
Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XQ1
Connection table

=HZ02.3.1 V =H05 +.B /11
998574-000501 (3) W92210-L1965-S058-A Sheet 11+ 17 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 :D7
		114	/M5.2	+.F -Q61-X11 :2		+.T -F31-1 :D8
		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 :D9
		514	/M5.4	+.F -Q61-X51 :2		+.T -F31-1 :D10
		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

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:

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H05 / V / / / 12

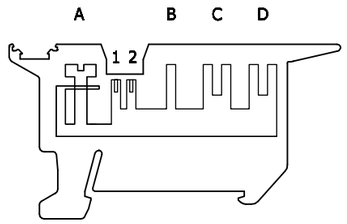
Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE			
				Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XQ61
Connection table

=HZ02.3.1 V =H05
+.B /12
998574-000501 (3) W92210-L1965-S058-A
Sheet 12+ 17 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	-XQ1 :815 D	-XQ61 :511 C
		816	/M5.4	+.F -Q61-X82 :1		+.T -F31-1 :D11
		817	/M18.7	+.F -Q61-X82 :2		
		818	/M18.7	+.F -Q61-X82 :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

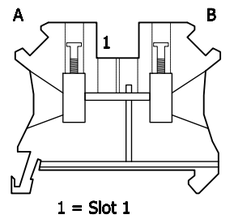
8DA10 SWITCHGEAR 33,0 kV
FEEDER w. BB VT
=H05+.B-XQ61
Connection table

=HZ02.3.1 V =H05 +.B /13

998574-000501 (3) W92210-L1965-S058-A Sheet 13+ 17 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 Link	Term.-no.	Cross-ref.	Termination B Destination Item designation
	-XPE			
	1 2 JUMPER			
=H05 +.BPE		1	/S5.8	
=H05 +.BPE		2	/S1.4	-XT1 :110PE A
		3	/S2.5	-XT1 :210PE A
		4	/S2.4	+.T -P01 :PE
		5	/S3.1	-XT15A :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			
				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
FEEDER w. BB VT
=H05+.B-XPE
Connection table

=HZ02.3.1 V =H05 +.B /14

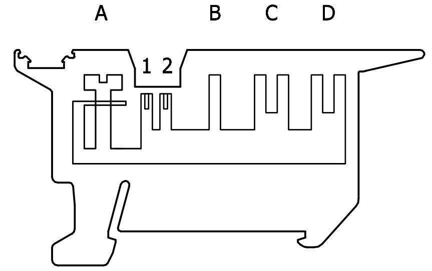
998574-000501 (3) W92210-L1965-S058-A Sheet 14+ 17 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H05 / V / / / 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

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
501-557	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 15

Cable connection to termination: A, B, C, D (columns 1–9)

Terminal strip: -XT15 (1 ¦ 2 JUMPER)

Termination A Destination Item designation	Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
-F15 :1		501	/S3.2	-XT15A :501 A		
-F15 :3		504	/S3.2	-XT15A :504 A		
-F15 :5		507	/S3.3	-XT15A :507 A		
-F15 :2	■	511	/S3.2			
-XR2 :21 C	■	512	/S3.2			
-F15 :4	■	513	/S3.2			
-XR2 :22 C	■	514	/S3.2			
-F15 :6	■	515	/S3.3			
-XR2 :23 C	■	516	/S3.3			
-XR2 :24 C		519	/S3.3	-XT15A :509PE A		
-F40 :2		550	/S4.2		-XT :108 B	-XT :100 B
-F40 :4		551	/S4.2		-XT :109 B	-XT :101 B
-F40 :6		552	/S4.2		-XT :110 B	-XT :102 B
-XR2 :24 A		553	/S4.3		-XT15 :557 C	-XT :103 B
		557	/S4.4		-XT15 :553 C	-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

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
FEEDER w. BB VT
=H05+.B-XT15
Connection table

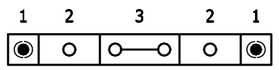
=HZ02.3.1 V =H05 +.B /15

998574-000501 (3) W92210-L1965-S058-A Sheet 15+ 17 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBKLP2-11-PT4
Archive: =H05 / V / / / 16
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	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
501 - 587	PT 4/1P	
503PE,506PE,509PE	PT 4/1P-PE	
533PE,536PE,539PE	PT 4/1P-PE	
580PE	PT 4/1P-PE	
590PE	PT 4-PE	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 20

Termination A Destination / Item designation	Terminal strip: Link	Terminal strip: Term.-no.	Terminal strip: Cross-ref.	Slot B Destination / Item designation
		-XT15A		
	1 2 JUMPER			
-XT15 :501 B		501	/S3.2	-XL1A :1a
-XPE :5 B		503PE	/S3.2	-XL1A :1n
-XT15 :504 B		504	/S3.2	-XL2A :1a
		506PE	/S3.2	-XL2A :1n
-XT15 :507 B		507	/S3.3	-XL3A :1a
-XT15 :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	A Cable clamp	Cover	Plug-in bridge
N-bus	B Screen bus	Higher level insulation plate	
PE-PEN-bus	C Screwed cable gland	Test socket	
Used cores total	D Plug housing		
Continued on sheet	E Insulated		

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
FEEDER w. BB VT
=H05+.B-XT15A
Connection table

=HZ02.3.1 | V | =H05 | +.B | /16

998574-000501 | (3) W92210-L1965-S058-A | Sheet 16+ 17 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 2 1

1) Test socket
2) Jumper
3) Disconnecting link

Cable connection to termination A B

Terminal	Terminal block type	Wire type
100-111	URTK/SP	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	Termination A Destination Item designation	Terminal strip -XT Link	Term.-no.	Cross-ref.	Termination B Destination Item designation
														+.T -F31-1 :B1		100	/S4.2	-XT15 :550 D
														+.T -F31-1 :B3		101	/S4.2	-XT15 :551 D
														+.T -F31-1 :B4		102	/S4.2	-XT15 :552 D
														+.T -F31-1 :B2		103	/S4.3	-XT15 :553 D
														+.T -P01 :F1		108	/S4.4	-XT15 :550 C
														+.T -P01 :F2		109	/S4.4	-XT15 :551 C
														+.T -P01 :F3		110	/S4.4	-XT15 :552 C
														+.T -P01 :F4		111	/S4.4	-XT15 :557 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			
				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
FEEDER w. BB VT
=H05+.B-XT
Connection table

=HZ02.3.1 V =H05 +.B /17

998574-000501 (3) W92210-L1965-S058-A