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
OUTGOING FEEDER

Typical =HZ02.2.1

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: =H19 / A / / / 1

Project: 998574-000501

Documentation identifier A / =H19 / / 1

Manufacturer document number (3) W92210-L1965-U191-A

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
A	=H01 +H01	/1	(3) W92210-L1965-U011	1-	1	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER Cover sheet	EM MS O GIS SWF PR OP SEN FFM
A	=H01 +H01	A1	(3) W92210-L1965-L012	1+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H01 +H01	A2	(3) W92210-L1965-L012	2+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H01 +H01	A3	(3) W92210-L1965-L012	3+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER List of documents	EM MS O GIS SWF PR OP SEN FFM
A	=H01 +H01	A4	(3) W92210-L1965-L012	4-	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER List of documents	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	B1	(3) W92210-L1965-S014	1-	1	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER FEEDER OVERVIEW Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	G1	(3) W92210-L1965-S015	1+	2	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER POWER SUPPLY Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	G2	(3) W92210-L1965-S015	2-	2	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER POWER SUPPLY Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M1	(3) W92210-L1965-S015	1+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M2	(3) W92210-L1965-S015	2+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M3	(3) W92210-L1965-S015	3+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL, CB. CLOSING/TRIPPING Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M4	(3) W92210-L1965-S015	4+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M5	(3) W92210-L1965-S015	5+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M6	(3) W92210-L1965-S015	6+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM

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Last used: 29.04.21 FBINH2
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Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

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

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 A =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 A1
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION			998574-000501 (3) W92210-L1965-L192-A Sheet 1+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		List of documents	4 Sh.

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
S	=H01 +H01	M7	(3) W92210-L1965-S015	7+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M9	(3) W92210-L1965-S015	9+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M10	(3) W92210-L1965-S015	10+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M11	(3) W92210-L1965-S015	11+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M12	(3) W92210-L1965-S015	12+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M13	(3) W92210-L1965-S015	13+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER INDICATION / STATUS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M14	(3) W92210-L1965-S015	14+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M15	(3) W92210-L1965-S015	15+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SIGNAL CONTACT FOR EXTERNAL Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	M16	(3) W92210-L1965-S015	16-	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL CIRCUIT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	S1	(3) W92210-L1965-S015	1+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	S2	(3) W92210-L1965-S015	2+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	S3	(3) W92210-L1965-S015	3+	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER TRANSFORMER CIRCUITS Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	S4	(3) W92210-L1965-S015	4-	4	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CAPDIS-S1+ Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z1	(3) W92210-L1965-S015	1+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER CIRCUIT BREAKER Circuit diagram	EM MS O GIS SWF PR OP SEN FFM

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				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

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8DA10 SWITCHGEAR 33,0 kV
FEEDER
List of documents

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998574-000501 | (3) W92210-L1965-L192-A | Sheet 2+ 4 Sh.

Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
S	=H01 +H01	Z2	(3) W92210-L1965-S015	2+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER THREE POSITION SWITCH Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z3	(3) W92210-L1965-S015	3+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER THREE POSITION SWITCH Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z4	(3) W92210-L1965-S015	4+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER VOIS + Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z5	(3) W92210-L1965-S015	5+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER PROTECTION DEVICE Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z6	(3) W92210-L1965-S015	6+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z7	(3) W92210-L1965-S015	7+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z8	(3) W92210-L1965-S015	8+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z9	(3) W92210-L1965-S015	9+	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
S	=H01 +H01	Z10	(3) W92210-L1965-S015	10-	10	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER SECONDARY EQUIPMENT Circuit diagram	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/1	(3) W92210-L1965-S018	1+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XR2 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/2	(3) W92210-L1965-S018	2+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XT1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/3	(3) W92210-L1965-S018	3+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/4	(3) W92210-L1965-S018	4+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/5	(3) W92210-L1965-S018	5+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM

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Archive: =H19 / A / A / 3

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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
List of documents

=HZ02.2.1 | A | =H19 / +H19 | A3

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ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBINH2
Archive: =H19 / A / A / 4

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Designation			Manufacturer document number Customer document number	Sheet	Sheets	Date	Description	Prepared by
V	=H01 +.B	/6	(3) W92210-L1965-S018	6+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/7	(3) W92210-L1965-S018	7+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XC30 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/8	(3) W92210-L1965-S018	8+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XQ0 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/9	(3) W92210-L1965-S018	9+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XQ0 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/10	(3) W92210-L1965-S018	10+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XQ1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/11	(3) W92210-L1965-S018	11+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XQ1 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/12	(3) W92210-L1965-S018	12+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XPE Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/13	(3) W92210-L1965-S018	13+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XT15 Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/14	(3) W92210-L1965-S018	14+	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XT Connection table	EM MS O GIS SWF PR OP SEN FFM
V	=H01 +.B	/15	(3) W92210-L1965-S018	15-	15	07.04.2021	8DA10 SWITCHGEAR 33,0 kV FEEDER +.B-XB11 Connection table	EM MS O GIS SWF PR OP SEN FFM

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Appr.	Jacobi	33KV MAIN SUBSTATION
Norm		Orig./Prep.for/Prep.by

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8DA10 SWITCHGEAR 33,0 kV
FEEDER

List of documents

=HZ02.2.1 A =H19
+H19
A4
998574-000501 (3) W92210-L1965-L192-A
Sheet 4-4 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / B / 1

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Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
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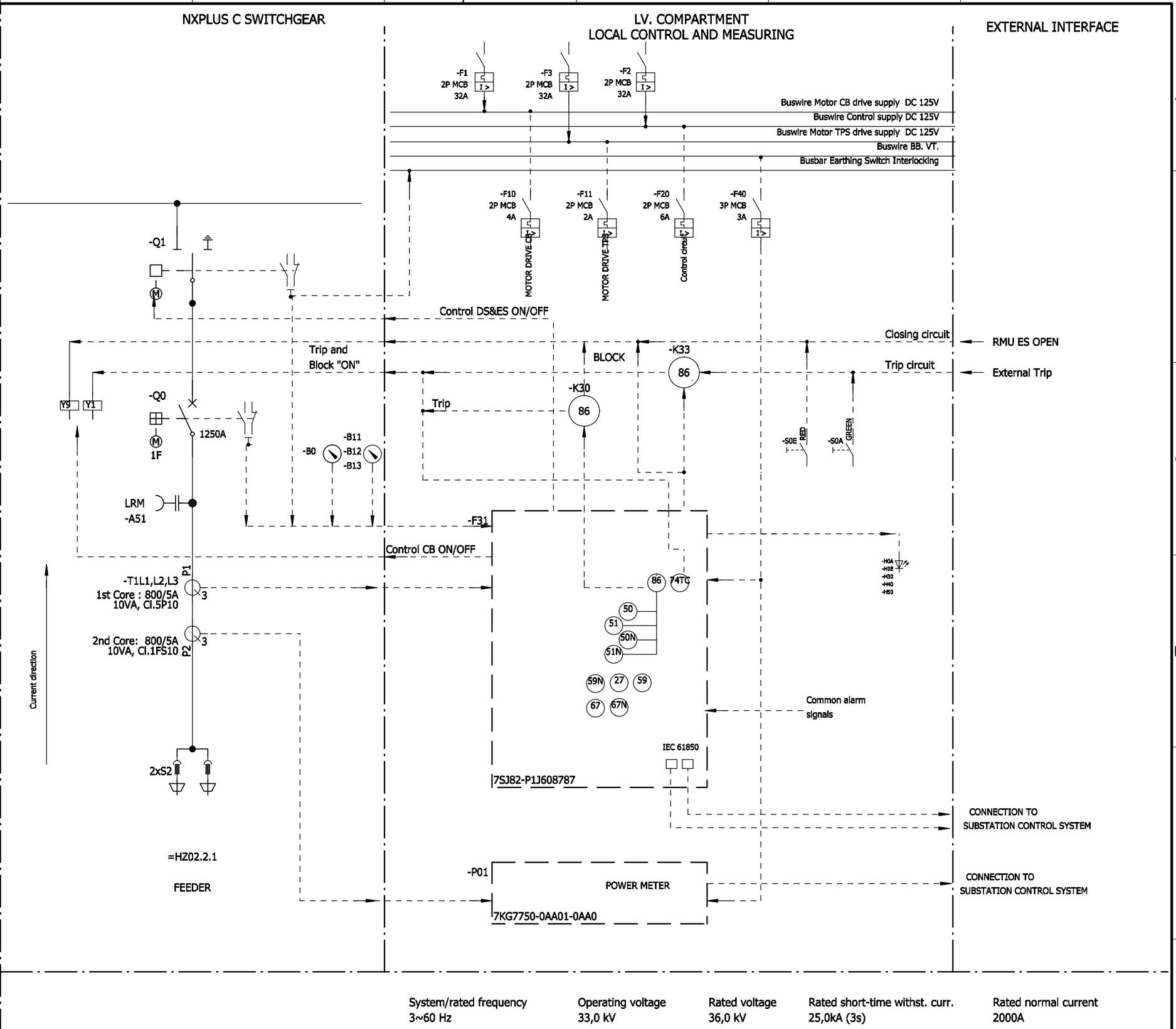
Remark :
Drawings will be applied for panel

H01,H19,H20,H38 Feeder outgoing

Legend

-Q0	Motorized Circuit-Breaker
-Q1	Hand Operated 3 Position Switch
-B0...	GAS PRESSURE MONITORING
-T1	Current 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	=HZ02.2.1	S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER		+H19 B1
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		FEEDER OVERVIEW	998574-000501	(3) W92210-L1965-S194-A Sheet 1-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		1 Sh.

ELCAD-Version 7.7.1 SP2
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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 -XR1 11 C — +.B -XR1 12 C — RR
+.B -XR1 13 C — +.B -XR1 14 C — RR
+.B -XR1 25 C — +.B -XR1 26 C — RR

H07V-K 2,5 BK

+.B -F10 /Z8.2 4A — 3 / 1 — 4 / 2 — I>
+.B -F11 /Z8.2 2A — 3 / 1 — 4 / 2 — I>
+.B -F20 /Z8.2 6A — 3 / 1 — 4 / 2 — I>

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

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

+.B -AQ1 /Z5.2 — -X1.1 — MCU — -X1.1
+.B -XQ0 27 D — 28 D
+.B -XQ1 102 D — 101 D

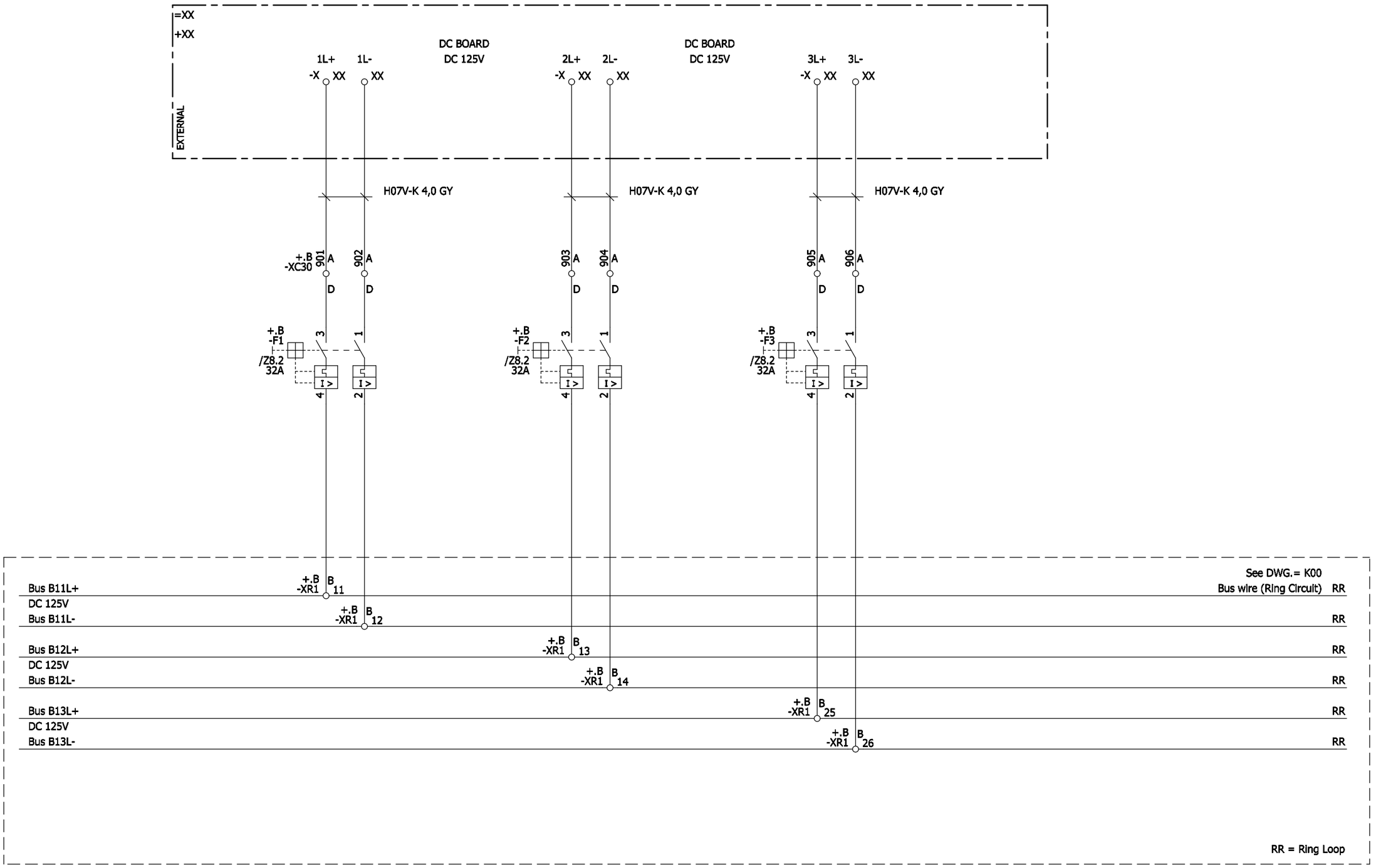
+.L -Q0 /Z1.1 — -X12 9 — 8 — -M1 — M DC — CIRCUIT BREAKER
+.D -Q1 /Z2.1 — -X1 0 — 1 — -M1 — M DC — TPS

+.T -F31 /Z6.1 — -2 L1 — -2 L2 — + — - — 7SJ82
+.T -P01 /Z10.5 — L/+ — N/- — + — - — 7KG7750
+.B -AQ1 /Z5.2 — -X1.2 9 — -X1.2 8 — MCU-MH

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 G1
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		POWER SUPPLY	
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501 (3) W92210-L1965-S195-A Sheet 1+ 2 Sh.

MAIN DC POWER SUPPLY VOLTAGE FOR						
CB. MOTOR DRIVE		CONTROL CIRCUIT		TPS. MOTOR DRIVE		
L+	L-	L+	L-	L+	L-	



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				Date	07.04.2021	Vena new energy company / TW

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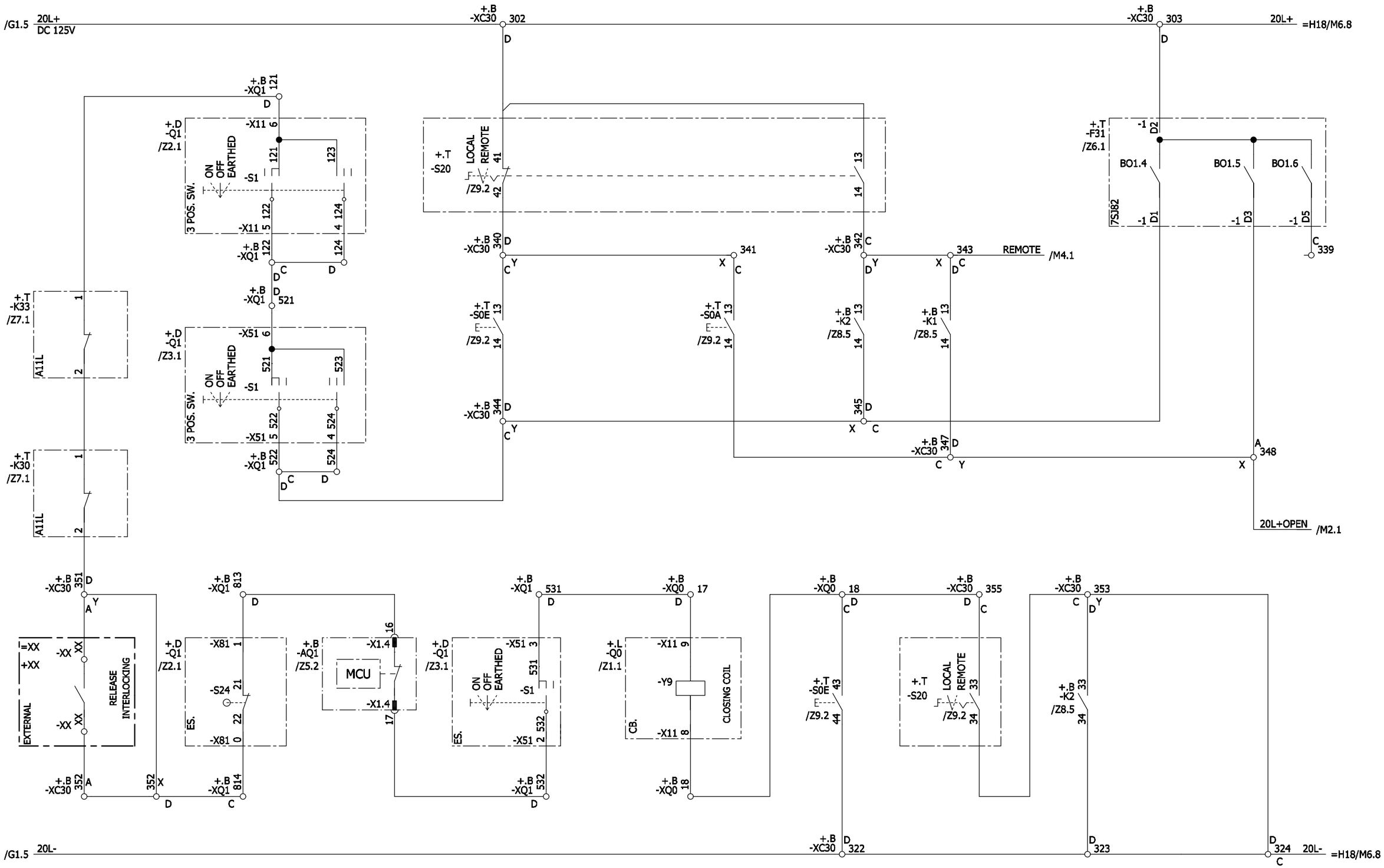
8DA10 SWITCHGEAR 33,0 kV
FEEDER
POWER SUPPLY
Circuit diagram

=HZ02.2.1	S	=H19	
		+H19	G2
998574-000501	(3) W92210-L1965-S195-A		Sheet 2-2 Sh.

CIRCUIT BREAKER CLOSING CONTROL CIRCUIT

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



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Last used: 29.04.21 FBSTP2
Archive: =H19 / 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	Drawn Herrmann
				Appr.	Jacobi	Norm

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

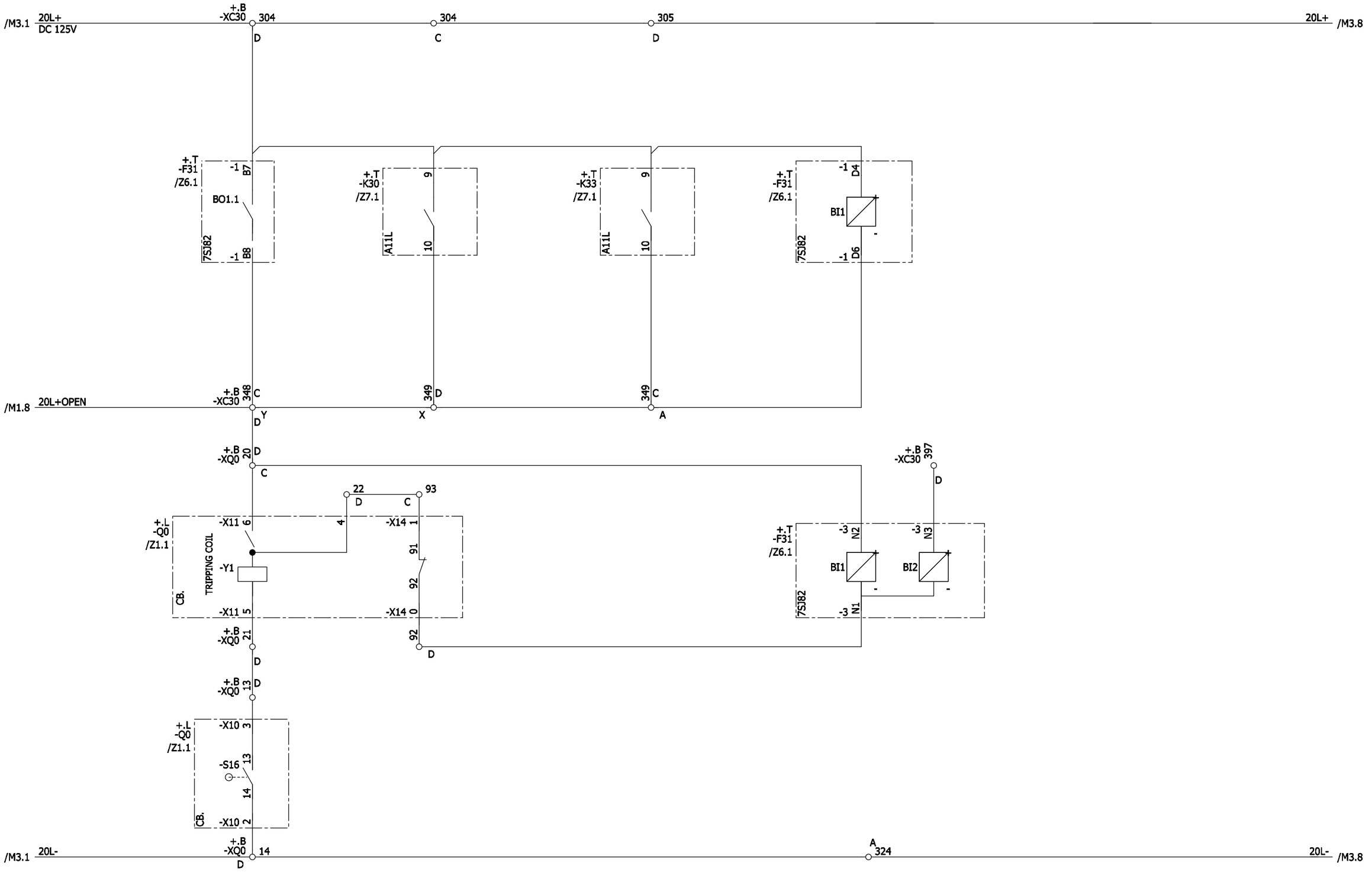
Siemens AG

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

=HZ02.2.1 S =H19
+H19 M1
998574-000501 (3) W92210-L1965-S195-A
Sheet 1+ 15 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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / M / 2

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

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

LV COMPARTMENT

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

Orig./Prep.for/Prep.by

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

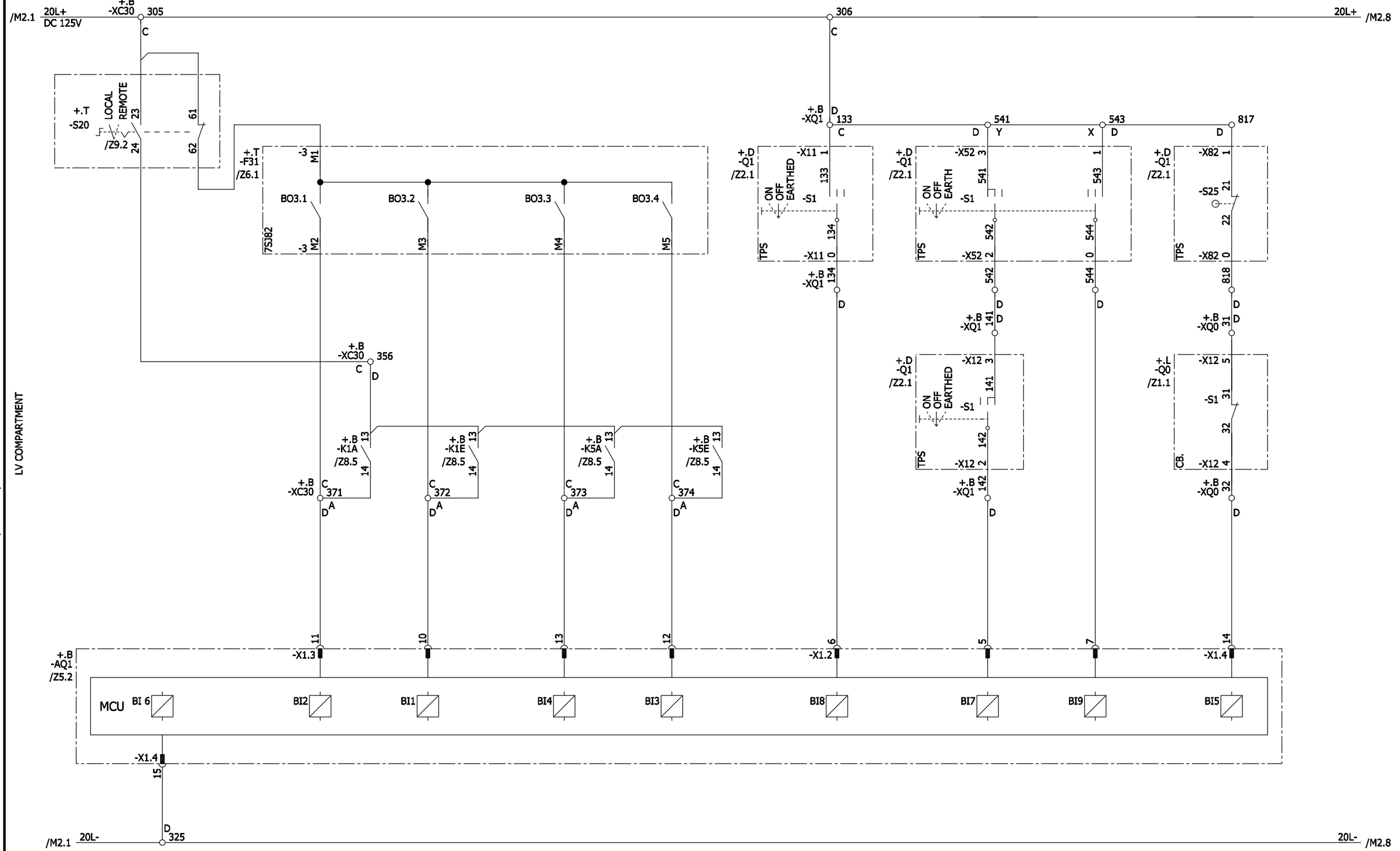
Siemens AG

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

=HZ02.2.1 S =H19
+H19 M2
998574-000501 (3) W92210-L1965-S195-A
Sheet 2+
15 Sh.

TPS MCU-MH CONTROL CIRCUIT

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



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / 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

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
CONTROL, CB. CLOSING/TRIPPING
Circuit diagram

=HZ02.2.1 | S | =H19 | +H19 | M3
998574-000501 | (3) W92210-L1965-S195-A | Sheet 3+ | 15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / M / 4
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2
Project: C:/Herrmann/998574-000501.pro
Symbol library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:

LV COMPARTMENT

PROTECTION CONTROL CIRCUIT

REMOTE	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

/M5.1 20L+ DC 125V — +.B -XC30 306 D

/M1.7 REMOTE

+.B -XC30 307 C 20L+ DC 125V /M5.8

+.B -XQ0 A 51 C D

+.B -XQ1 111 C D

511 D C

+.B -XQ0 23 C

-+.T -K30 /Z7.1 17 A11L 18

-+.T -K33 /Z7.1 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 -X11 8 114 7

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

-+.B -K50 /Z8.5 43 44

-+.B -K51 /Z8.5 43 44

-+.B -K53 /Z8.5 43 44

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

+.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 /Z6.1 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

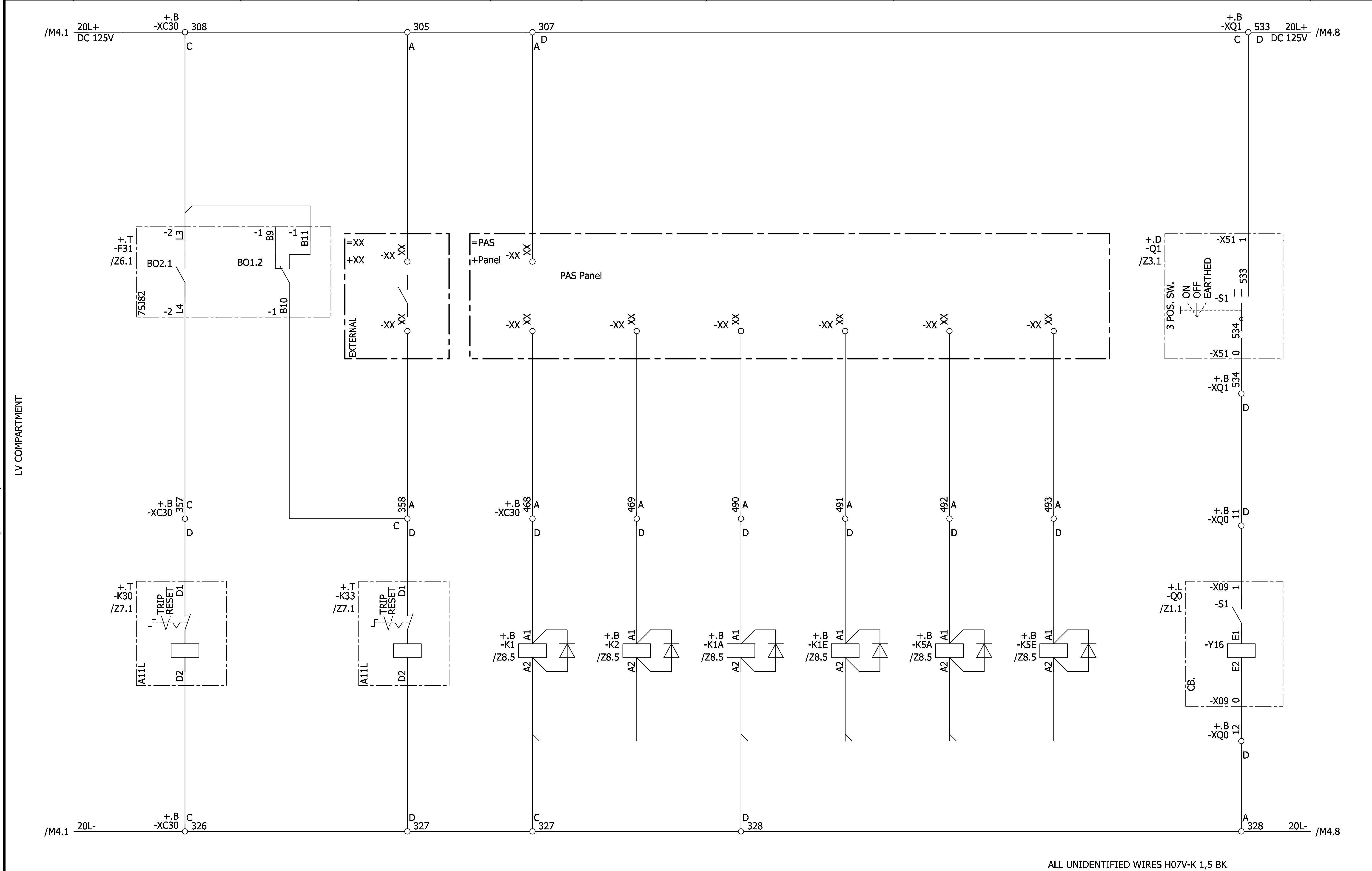
7SJ82 -2 L11 -3 N11

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

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1	S	=H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER			+H19
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL CIRCUIT			M4
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S195-A	Sheet 4+ 15 Sh.

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

				Date	07.04.2021
				Drawn	Herrmann
A	change PCMI II	29.04.21	HE	Appr.	Jacobi
Revision	Modification	Date	Name	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
CONTROL CIRCUIT
Circuit diagram

=HZ02.2.1 S =H19 +H19 M5

998574-000501 (3) W92210-L1965-S195-A Sheet 5+ 15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / 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 library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / 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

/M7.1 20L+ DC 125V

+.B -XQ0 61 D C — 41 D X — 43 Y

+.B -XC30 309 C — 310 D

310 C — 311 D 20L+ DC 125V

+.L -Q0 /Z1.1 -X13 2 — -S1 63 64 61 62 — -X13 0 1 — CB.

-X12 1 41 42 -X12 0 — -X13 9 43 44 -X13 8

+.T -K30 /Z7.1 15 A11L 16

+.T -K33 /Z7.1 15 A11L 16

+.B -F10 /Z8.2 11 12

+.B -F1 /Z8.2 11 12

+.B -F11 /Z8.2 11 12

+.B -F3 /Z8.2 11 12

+.B -F40 /Z8.5 31 32

+.B -XQ0 64 D — 62 D — 42 D — 44 D

+.B -XC30 360 D C Y — D 361 X

C 362 D

C 363 D

+.B -K40 /Z8.2 A1 A2

+.B -K40 /Z8.2 E1 E2

+.T -H0A /Z9.2 green X1 X2

+.T -H0E /Z9.2 red X1 X2

+.T -H30 /Z9.2 white X1 X2

+.T -H40 /Z9.2 yellow X1 X2

+.T -H50 /Z9.2 yellow X1 X2

/M7.1 20L- +.B -XC30 C 329 — D 330 — C 330 X — D 331 Y — C 331 X — D 332 Y — C 332 X 20L-

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

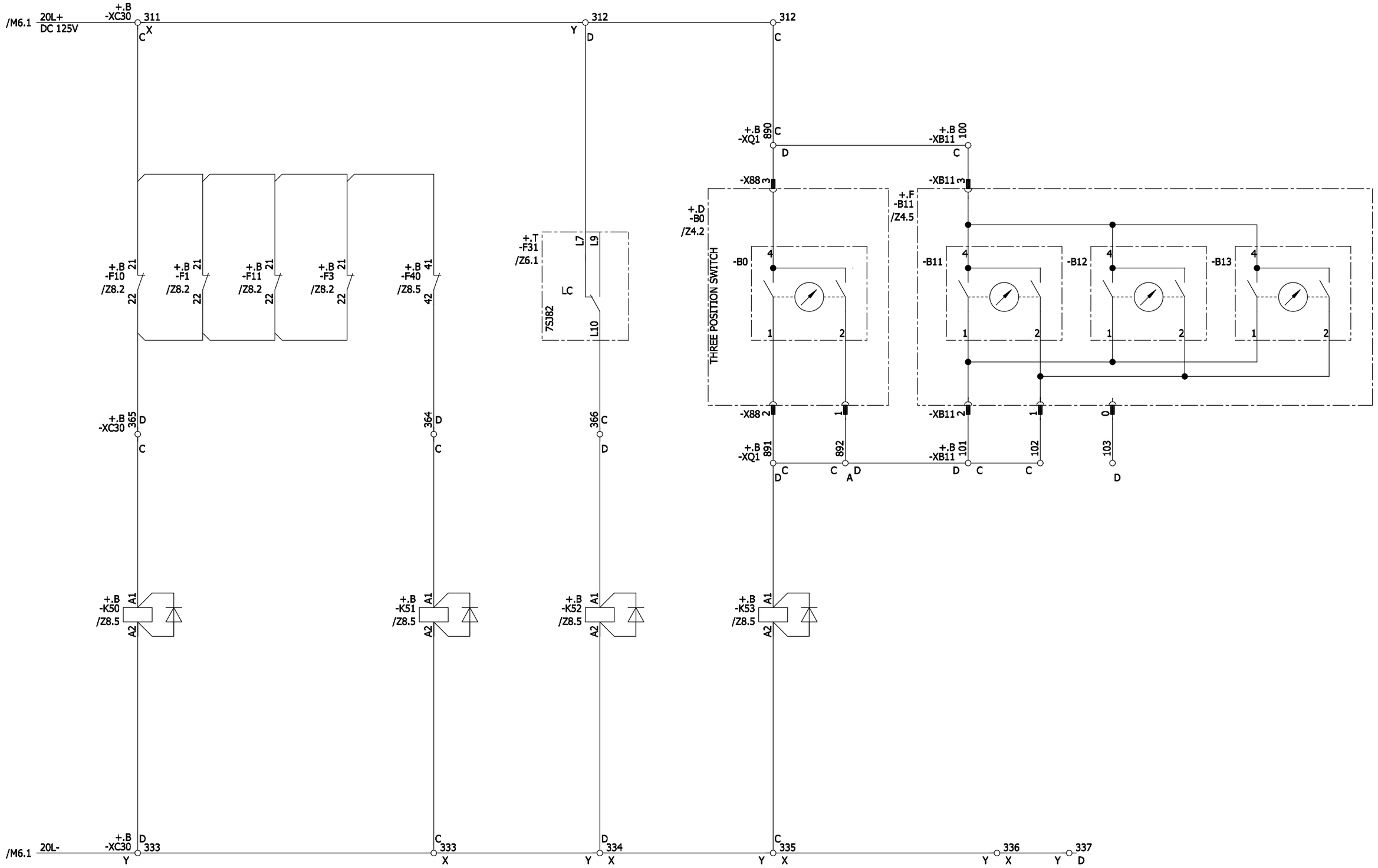
Revision	Modification	Date	Name			
A	change PCMI II	29.04.21	HE	Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER
CONTROL CIRCUIT
Circuit diagram

=HZ02.2.1 S =H19
+H19 M6
998574-000501 (3) W92210-L1965-S195-A Sheet 6+
15 Sh.

	SIGNAL CONTACT				GAS MONITORING CIRCUIT									
	MCB OFF/TRIP				PROTECTION RELAY		CB. SF6-GAS MONITORING		BB SF6-GAS MONITORING L1/L2/L3					
	DC MCB TRIP		PT MCB TRIP		LIVE STATUS CONTACT		LOW/HIGH		LOW	HIGH	LOW	HIGH	LOW	HIGH



LV COMPARTMENT

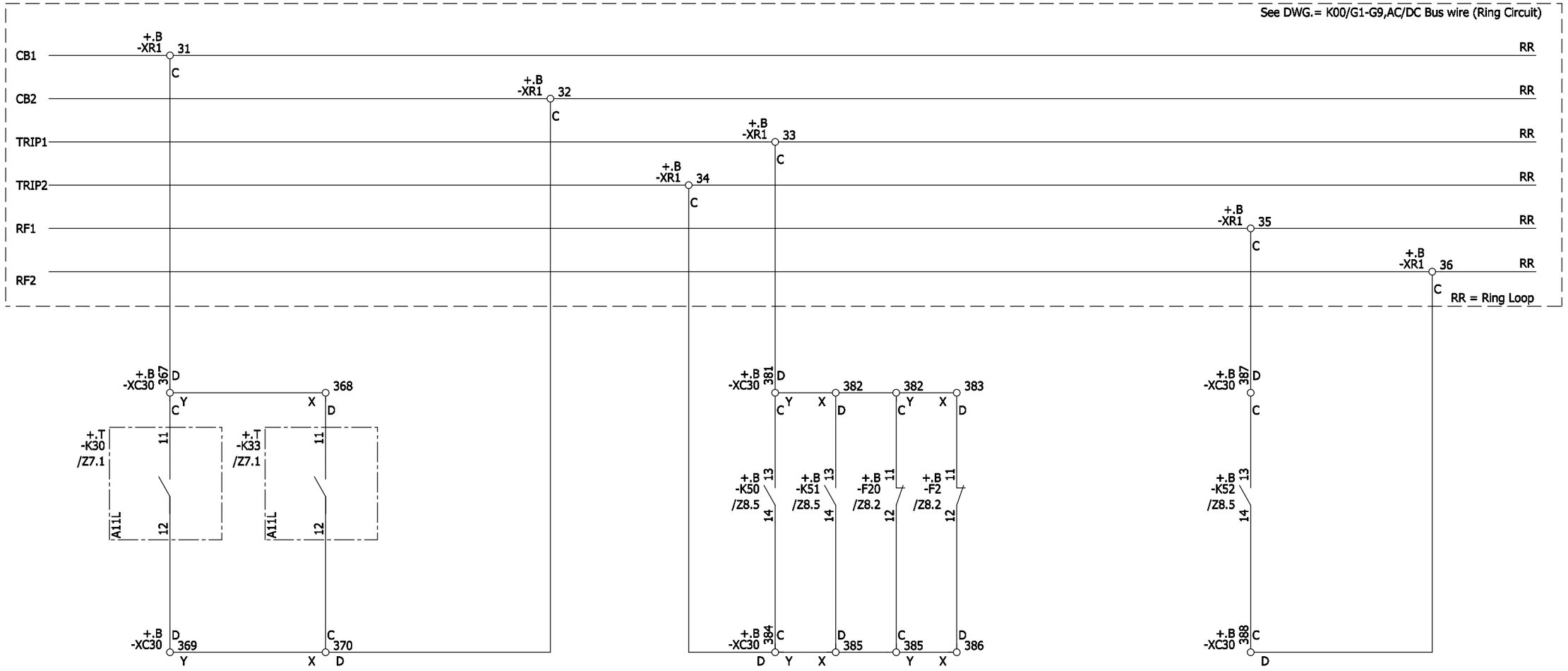
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / M / 7
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2
Project: C:/Herrmann/998574-000501.pro
Symbol 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	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 M7
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501 (3) W92210-L1965-S195-A Sheet 7+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	15 Sh.

SIGNAL CONTACT FOR BUS WIRE					
LOCKOUT RELAY			MCB OFF / TRIP	PROTECTION RELAY	
50/51/50N/51N TRIP	EXTERNAL			LIVE STATUS CONTACTS	

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	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 M8
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	Sheet 8+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501 (3) W92210-L1965-S195-A 15 Sh.

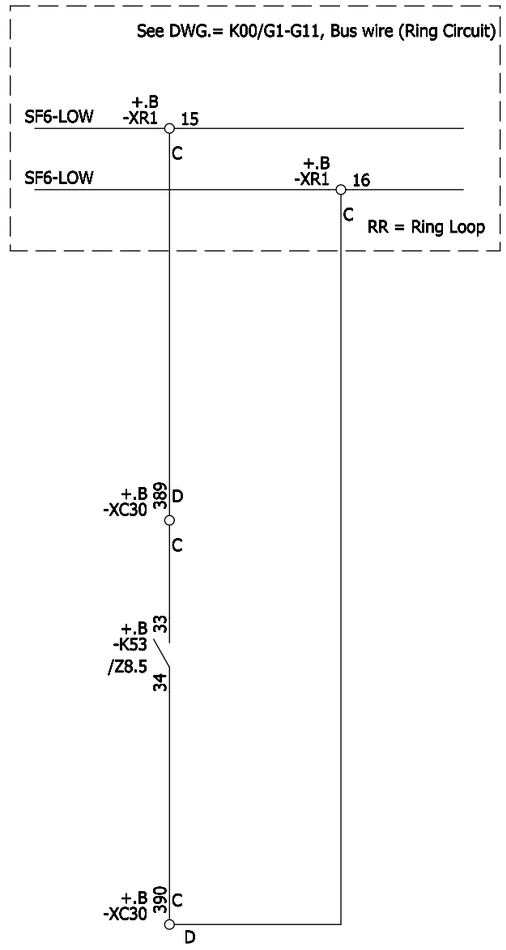
SIGNAL CONTACT FOR BUS WIRE

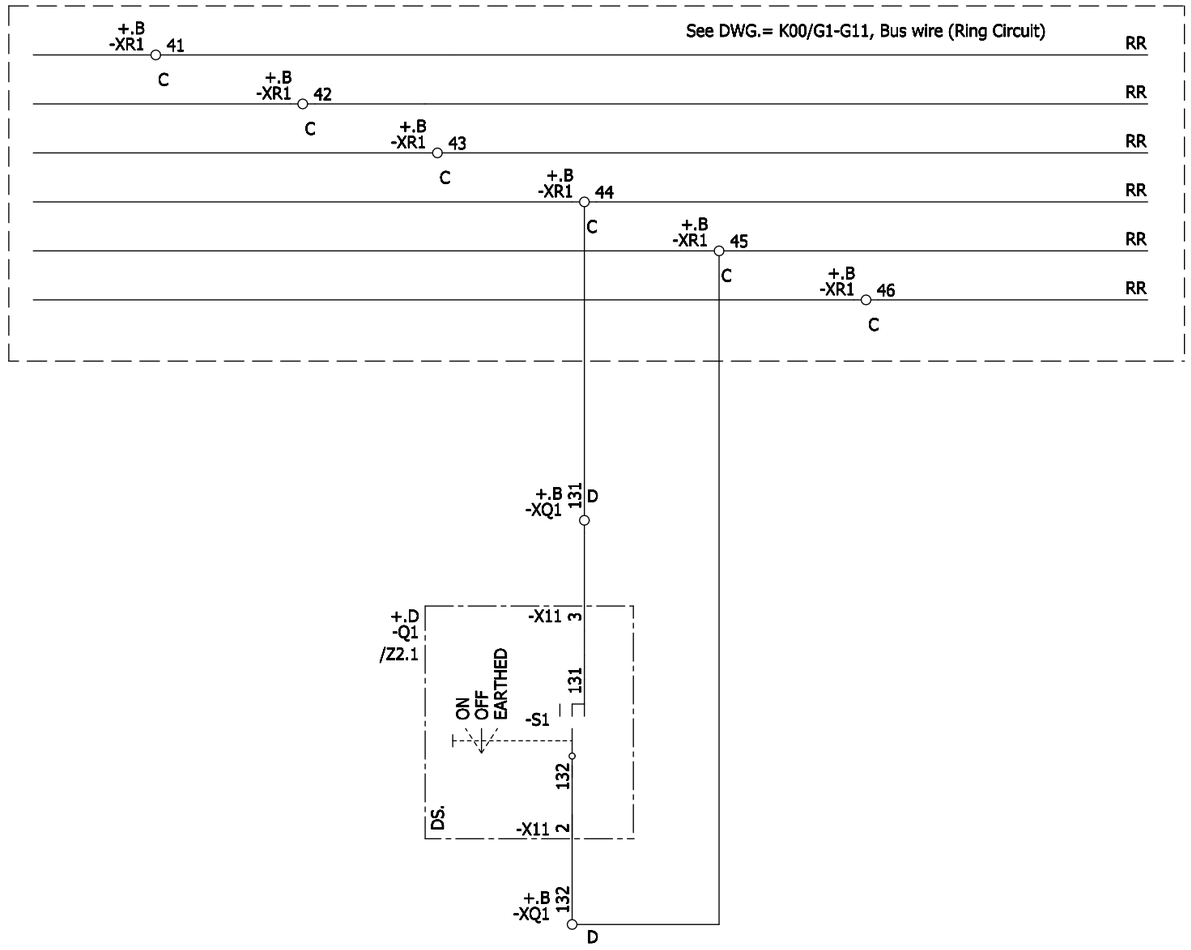
GAS MONITORING CIRCUIT

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: =H19 / 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

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
SIGNAL CONTACT FOR EXTERNAL
Circuit diagram

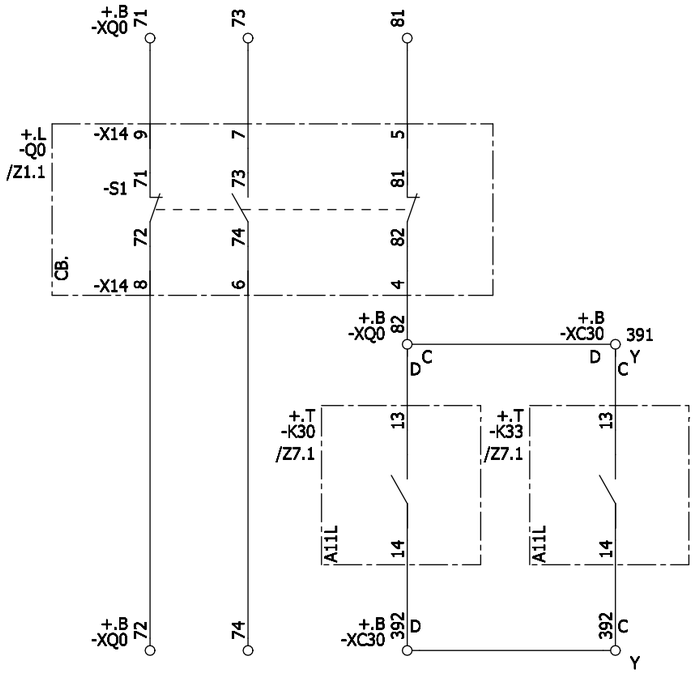
=HZ02.2.1 | S | =H19
+H19 | M9

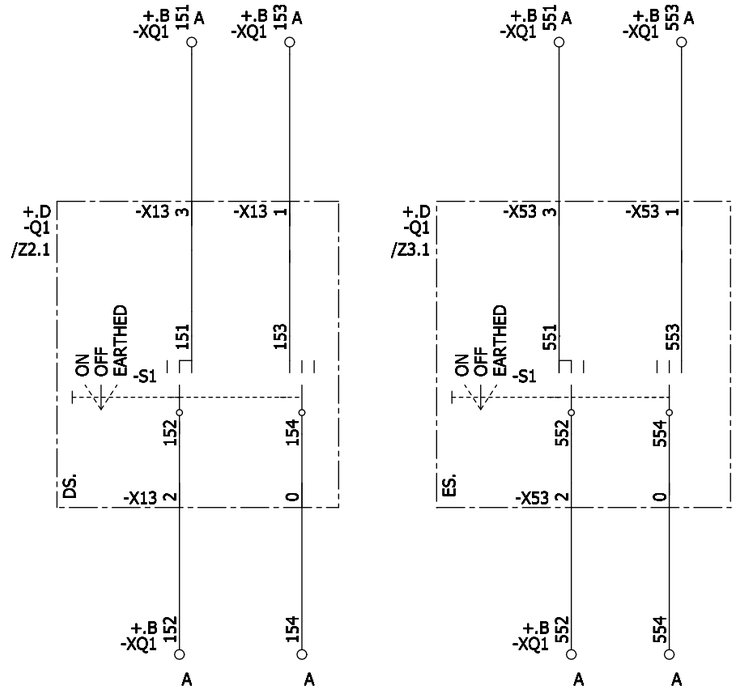
998574-000501 | (3) W92210-L1965-S195-A | Sheet 9+ | 15 Sh.

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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / 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 library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

LV COMPARTMENT

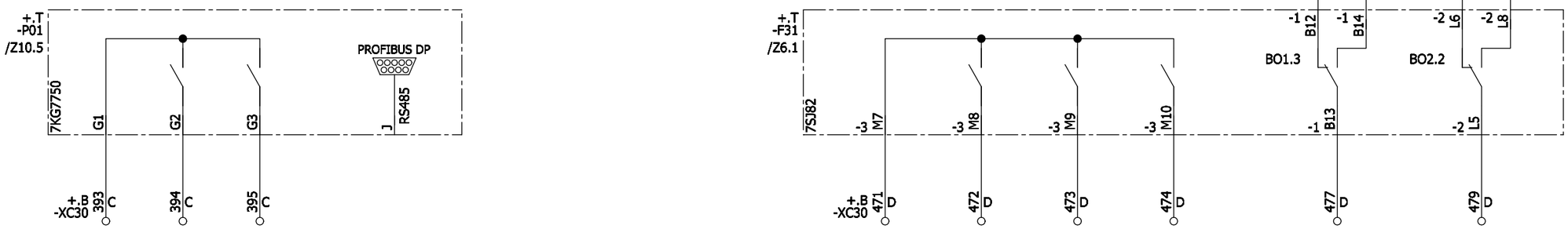




ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name						
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 M10
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501 (3) W92210-L1965-S195-A Sheet 10+
				Norm		Orig./Prep.for/Prep.by		Circuit diagram	15 Sh.

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



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	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 M11
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501 (3) W92210-L1965-S195-A Sheet 11+
				Norm		Orig./Prep.for/Prep.by		Circuit diagram	15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / M / 12

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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:

LV COMPARTMENT

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
/Z8.2

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

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19	
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19	M12
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		INDICATION / STATUS	998574-000501 (3) W92210-L1965-S195-A	Sheet 12+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		15 Sh.

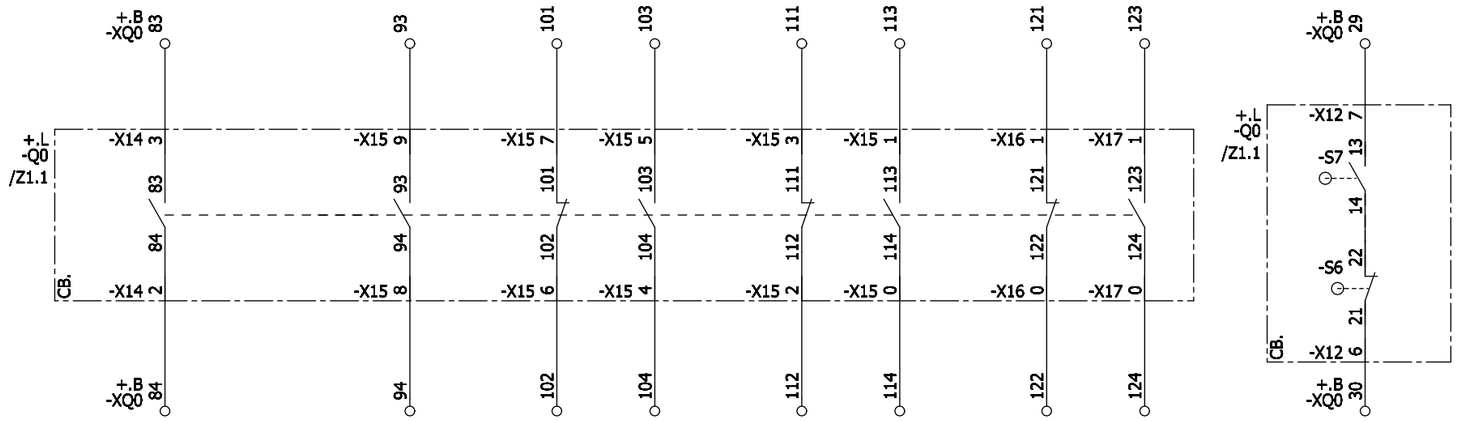
	CONTACT FOR EXTERNAL										
		CIRCUIT BREAKER								BREAKER TRIPPING	
		ON	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	INDICATION

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / 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 library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

LV COMPARTMENT



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1	S	=H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER			+H19 M13
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CONTROL CIRCUIT	998574-000501	(3) W92210-L1965-S195-A	Sheet 13+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / M / 14

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

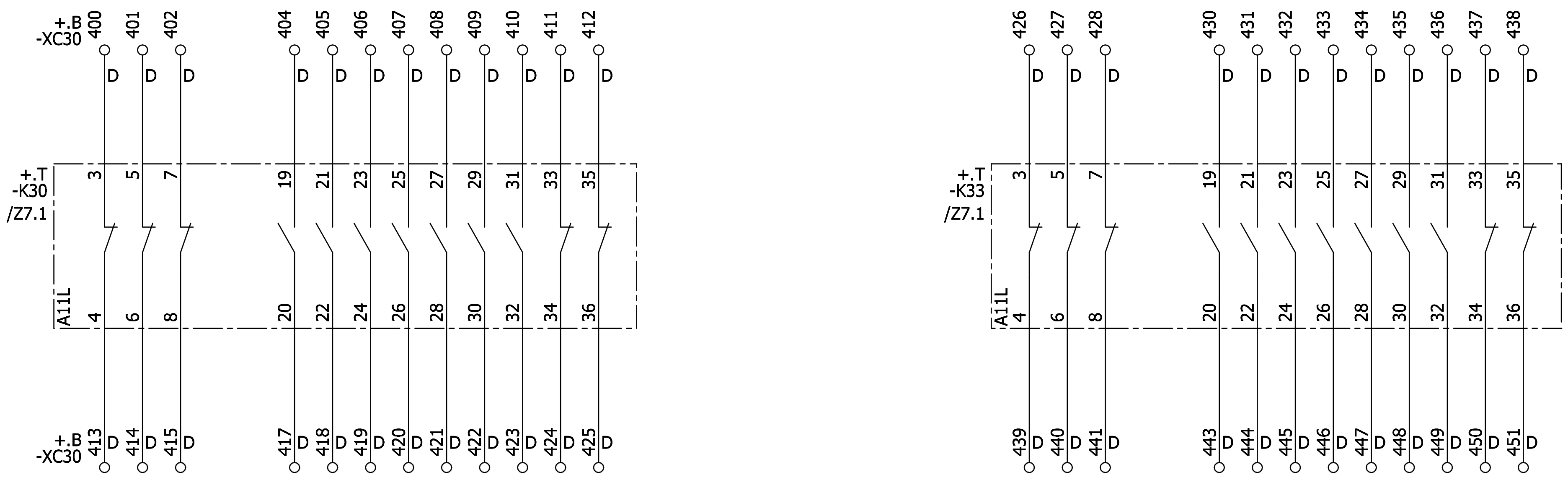
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

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

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	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 M14
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SIGNAL CONTACT FOR EXTERNAL	998574-000501 (3) W92210-L1965-S195-A Sheet 14+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	15 Sh.

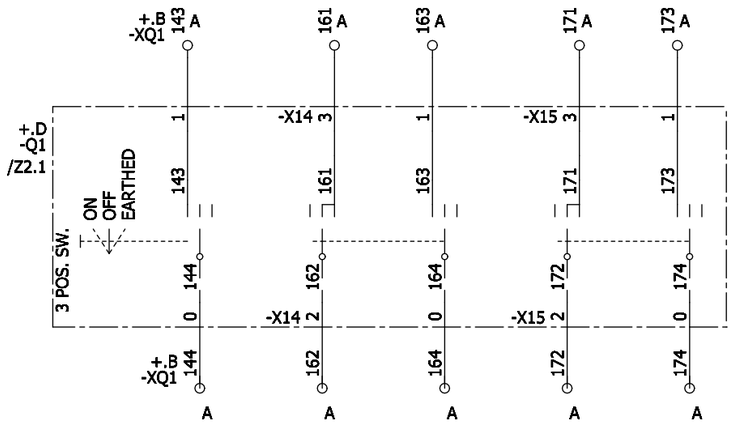
	SPARE AUXILIARY CONTACT						SPARE AUXILIARY CONTACT				
	ISOLATOR SWITCH						EARTHING SWITCH				
		ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	

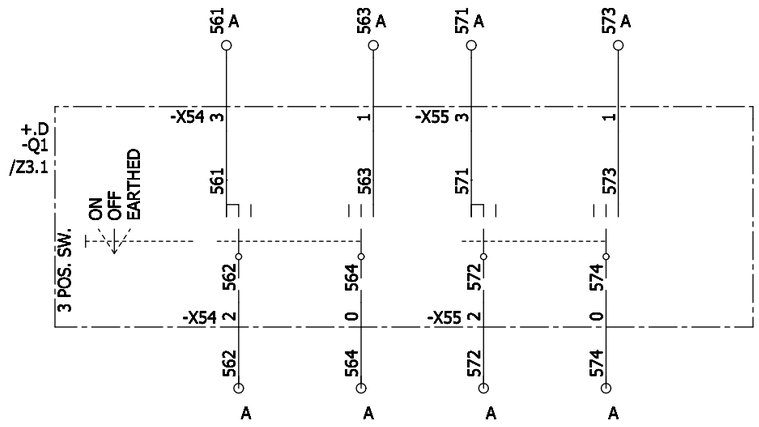
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / M / 15

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

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

LV COMPARTMENT





ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL CIRCUIT Circuit diagram	=HZ02.2.1	S	=H19
				Drawn	Herrmann						+H19 M15
A	change PCMI II	29.04.21	HE	Appr.	Jacobi				998574-000501	(3) W92210-L1965-S195-A	Sheet 15-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by					15 Sh.

1st SECONDARY CORE OF CURRENT TRAMSFORMER

FOR PROTECTION

HV COMP.

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

+.F -T1L1 /Z10.5 1S2 1S1
+.F -T1L2 /Z10.5 1S2 1S1
+.F -T1L3 /Z10.5 1S2 1S1

H07V-K 4,0 BK

DL = Disconnect. link
SB = Sliding Bridge

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

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

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

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

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

+.T -F31 /Z6.1
7SJ82
-1 A1 IL1
-1 A3 IL2
-1 A5 IL3
-1 A7 3I0
-2 PE
-1 A2
-1 A4
-1 A6
-1 A8

LV COMPARTMENT

ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / 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:

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 S1
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS	998574-000501 (3) W92210-L1965-S195-A Sheet 1+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	4 Sh.

2nd SECONDARY CORE OF CURRENT TRAMSFORMER

FOR METERING

HV COMP.

LV COMPARTMENT

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

+.F -T1L1 /Z10.5 2S2 2S1
+.F -T1L2 /Z10.5 2S2 2S1
+.F -T1L3 /Z10.5 2S2 2S1

H07V-K 4,0 BK

DL = Disconnect. link
SB = Sliding Bridge

+.B -XPE 3 B
H07V-K 4,0 GNYE
210PE A

211 A X
221 A Y X
231 A Y

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

DL +.B -XT1 212 B
DL 222 B
DL 232 B
DL 211 B

211 X Y

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

+.T -P01 /Z10.5
7KG7750
E1 E3 E5
IL1 IL2 IL3
CURRENT
E2 E4 E6
PE

241 A X
251 A Y X
261 A Y

+.B -XT1 242 A SB
252 A SB
262 A SB
241 A

DL +.B -XT1 242 B
DL 252 B
DL 262 B
DL 241 B

ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / S / 2

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

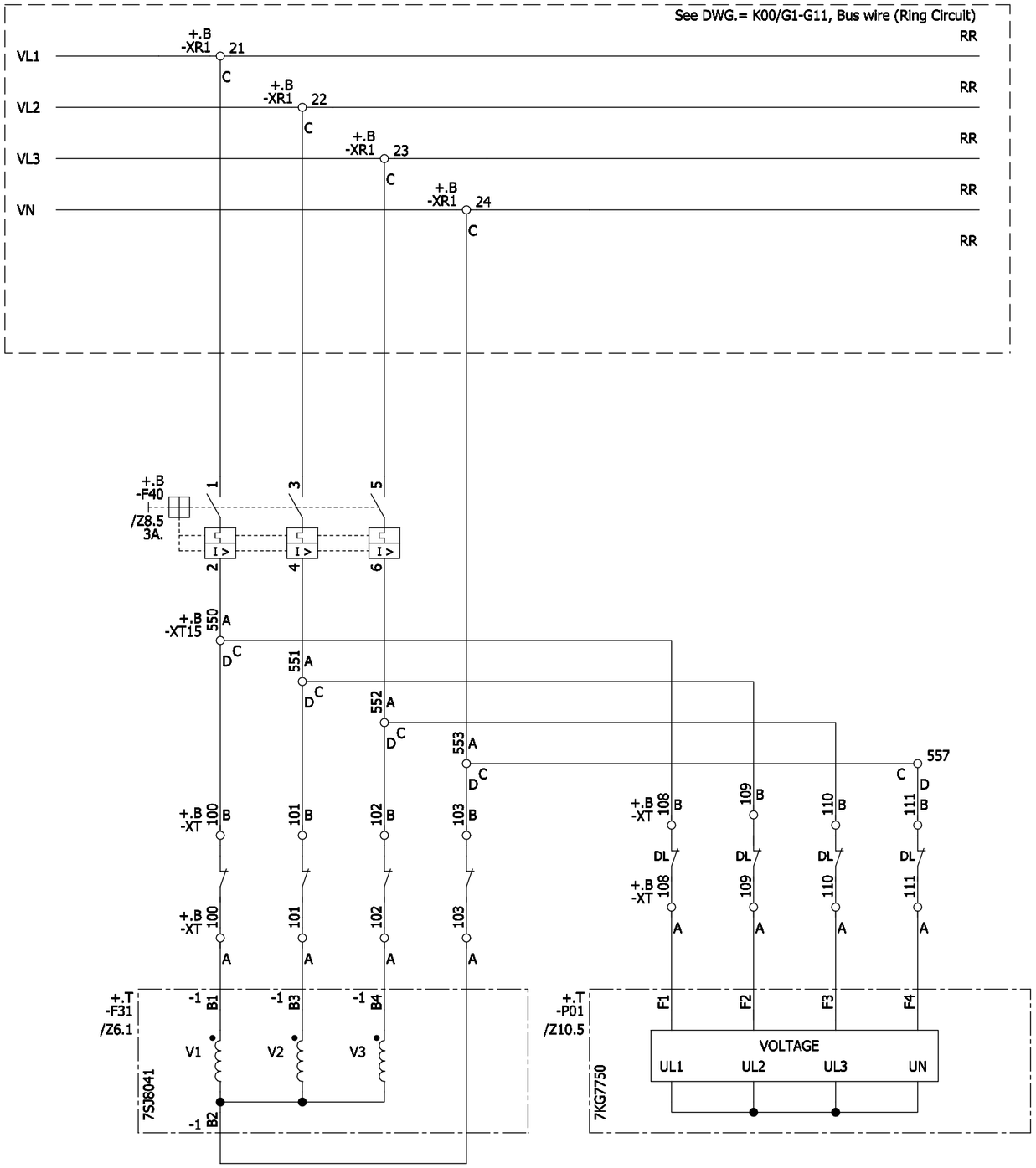
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 S2
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		TRANSFORMER CIRCUITS	998574-000501 (3) W92210-L1965-S195-A Sheet 2+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	4 Sh.

SECONDARY WINDING OF BUSBAR VOLTAGE TRAFO

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: =H19 / 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:

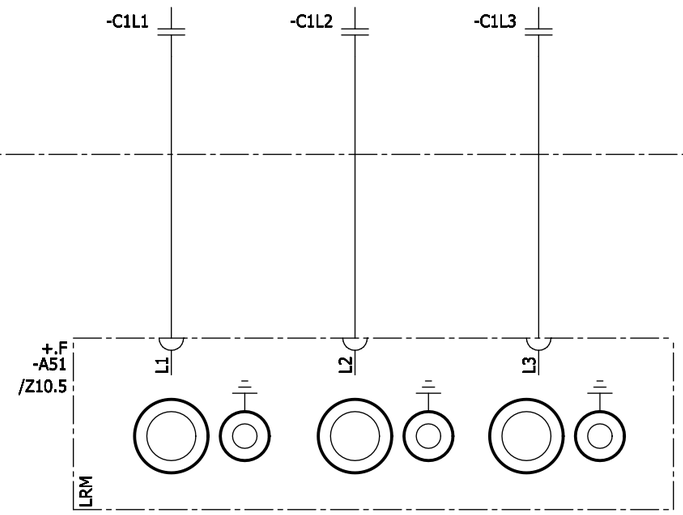
				Date	07.04.2021	Vena new energy company / TW	Siemens AG
				Drawn	Herrmann	Siemens Limited (Taipei)	
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION	
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by	

8DA10 SWITCHGEAR 33,0 kV
FEEDER
TRANSFORMER CIRCUITS
Circuit diagram

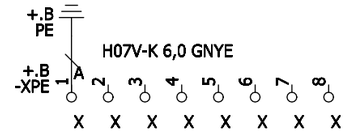
=HZ02.2.1 | S | =H19
+H19 | S3
998574-000501 | (3) W92210-L1965-S195-A | Sheet 3+ 4 Sh.

HV COMP.

CAP. VOLTAGE TAP



LV COMPARTMENT



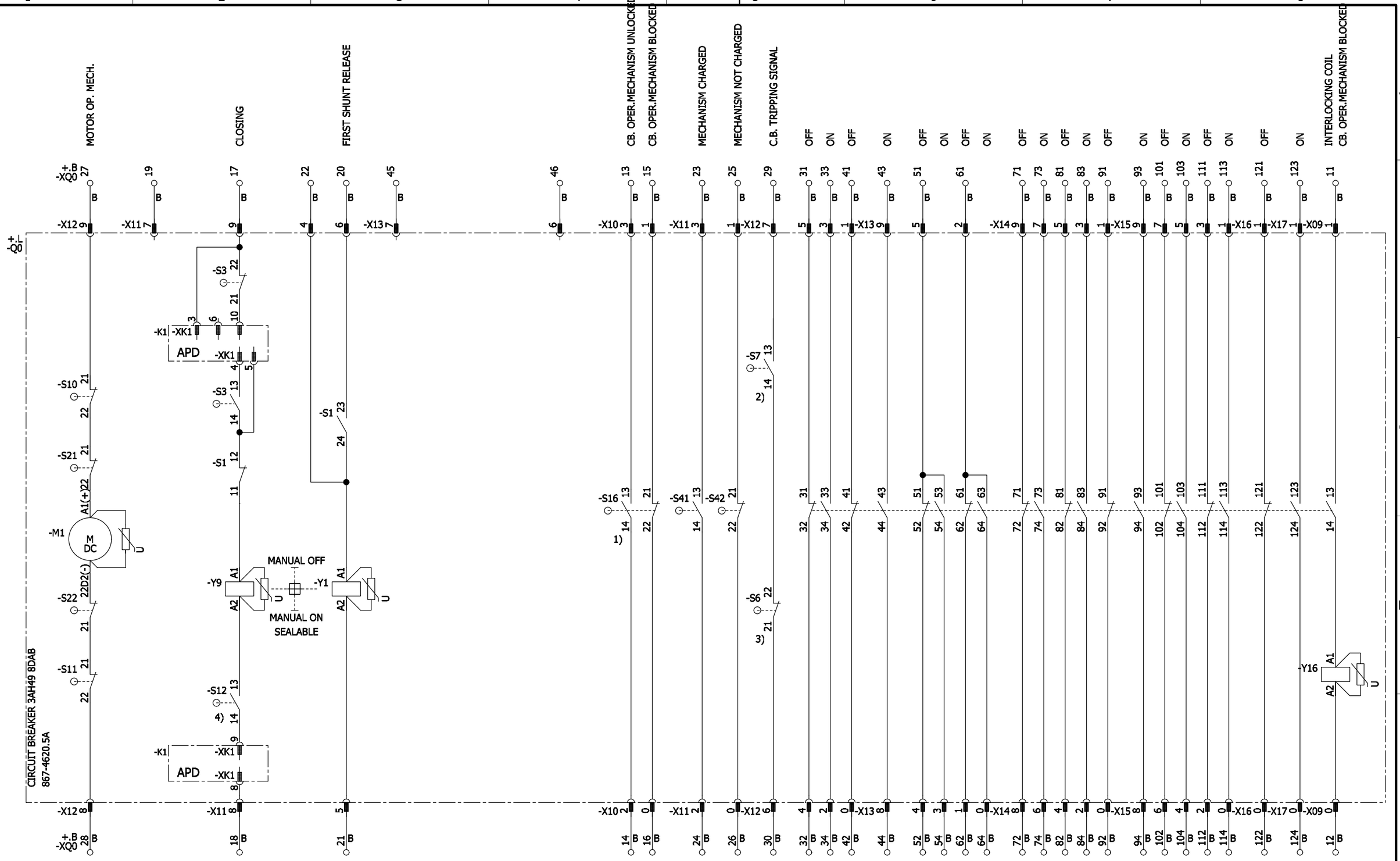
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1	S	=H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER			+H19 S4
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		CAPDIS-S1+	998574-000501	(3) W92210-L1965-S195-A	Sheet 4-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram			4 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / Z / 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:



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

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	

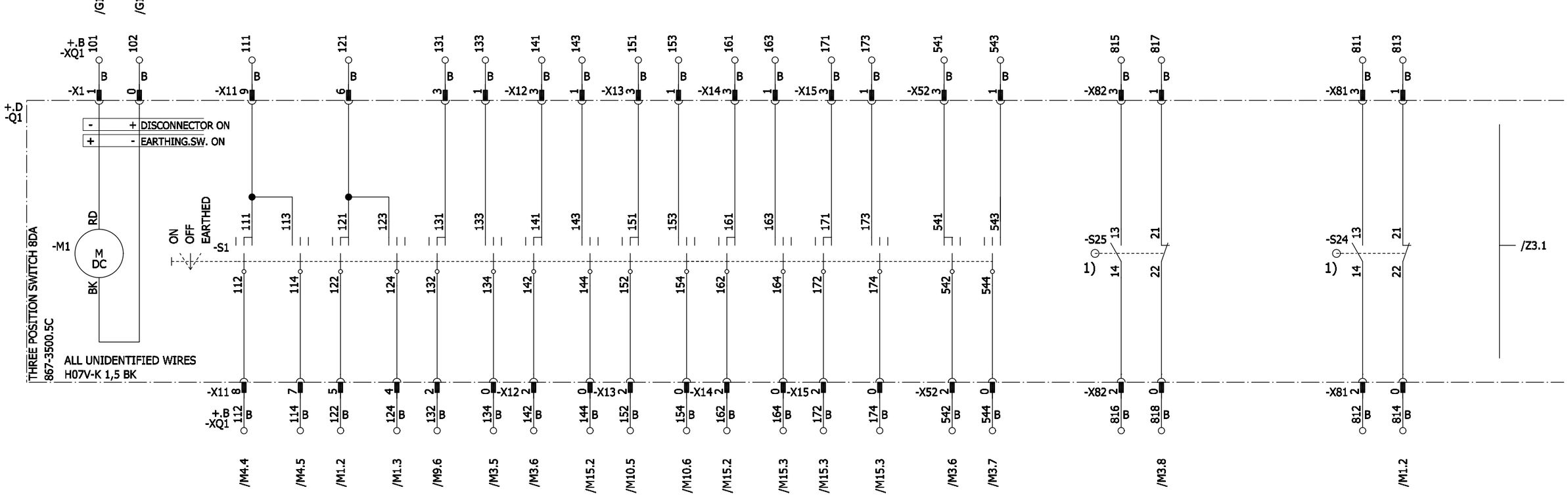
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER
CIRCUIT BREAKER
Circuit diagram

=HZ02.2.1 S =H19
+H19 Z1
998574-000501 (3) W92210-L1965-S195-A
Sheet 1+ 10 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

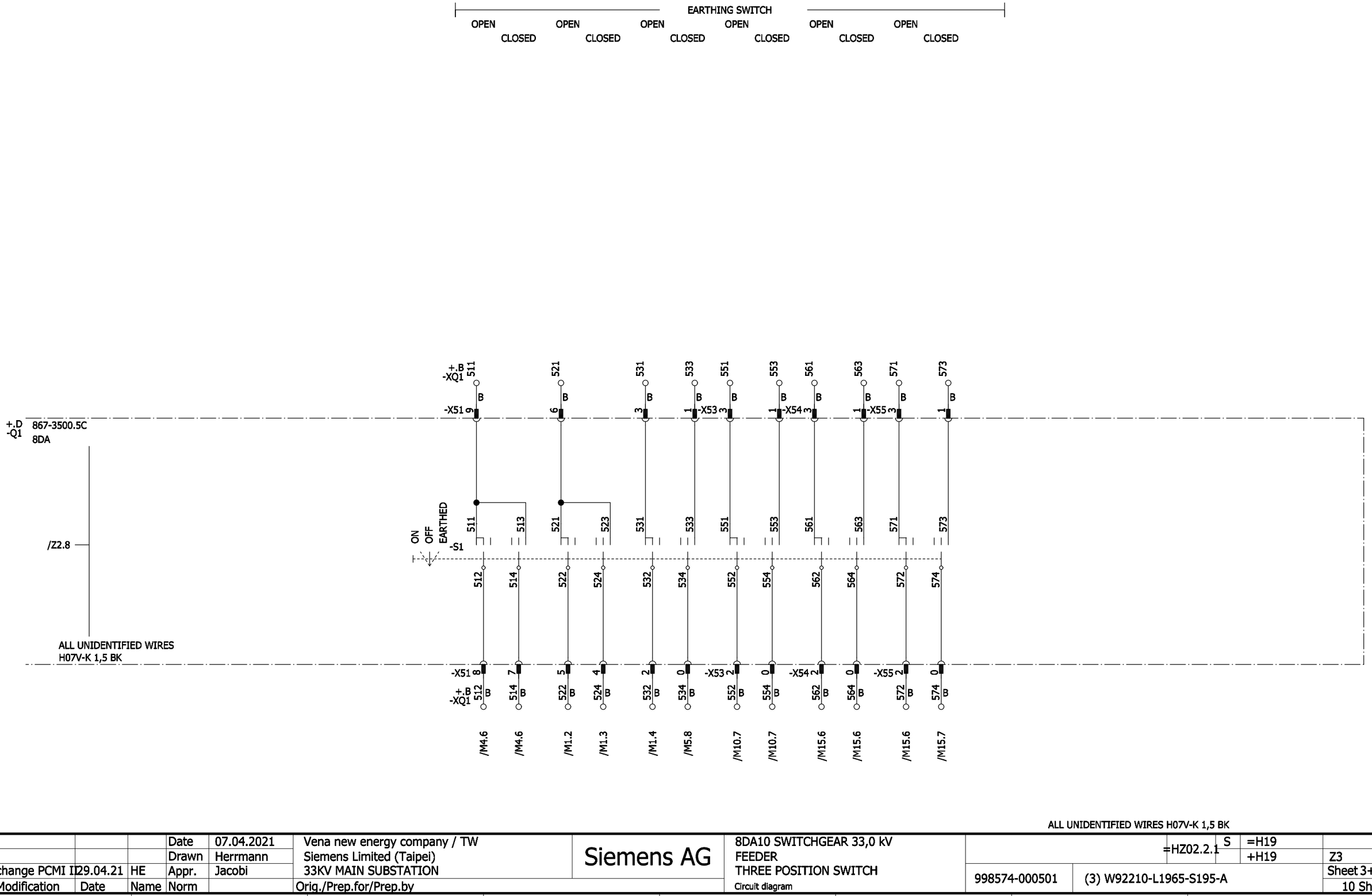
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

Revision	Modification	Date	Name			
				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
THREE POSITION SWITCH
Circuit diagram

=HZ02.2.1 S =H19
+H19 Z2
998574-000501 (3) W92210-L1965-S195-A Sheet 2+
10 Sh.



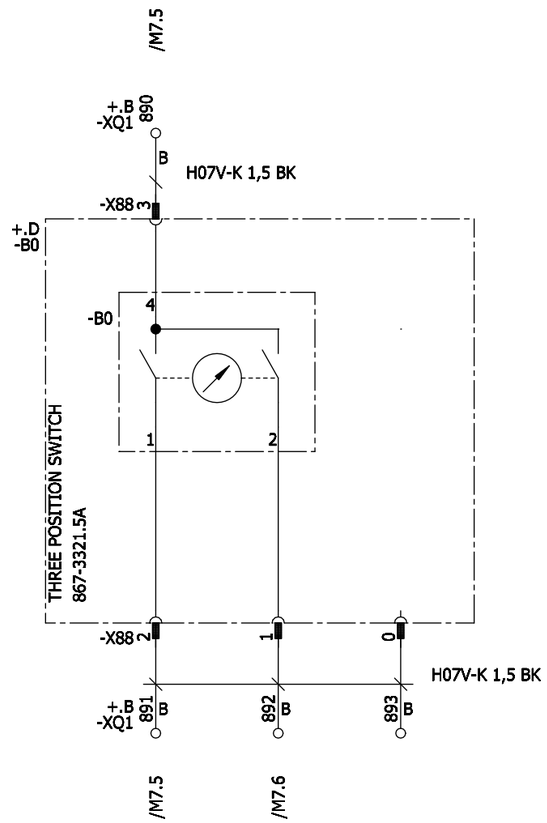
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 Z3
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		THREE POSITION SWITCH	998574-000501 (3) W92210-L1965-S195-A Sheet 3+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	10 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>

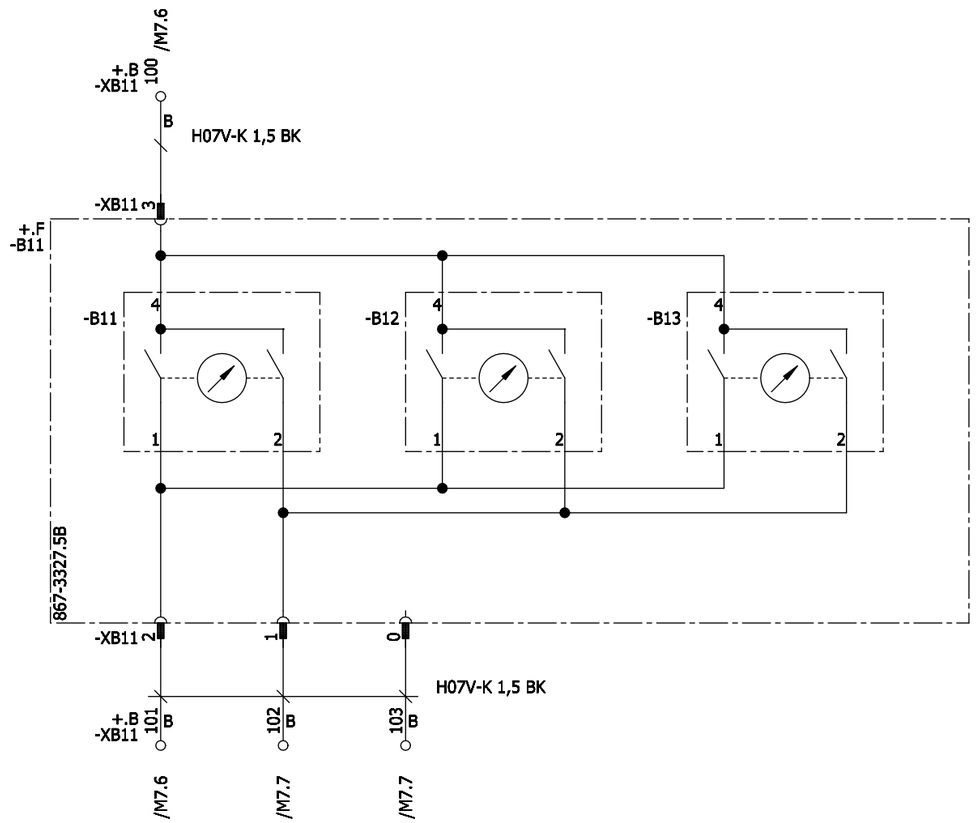


GAS PRESSURE MONITORING BUSBAR 1

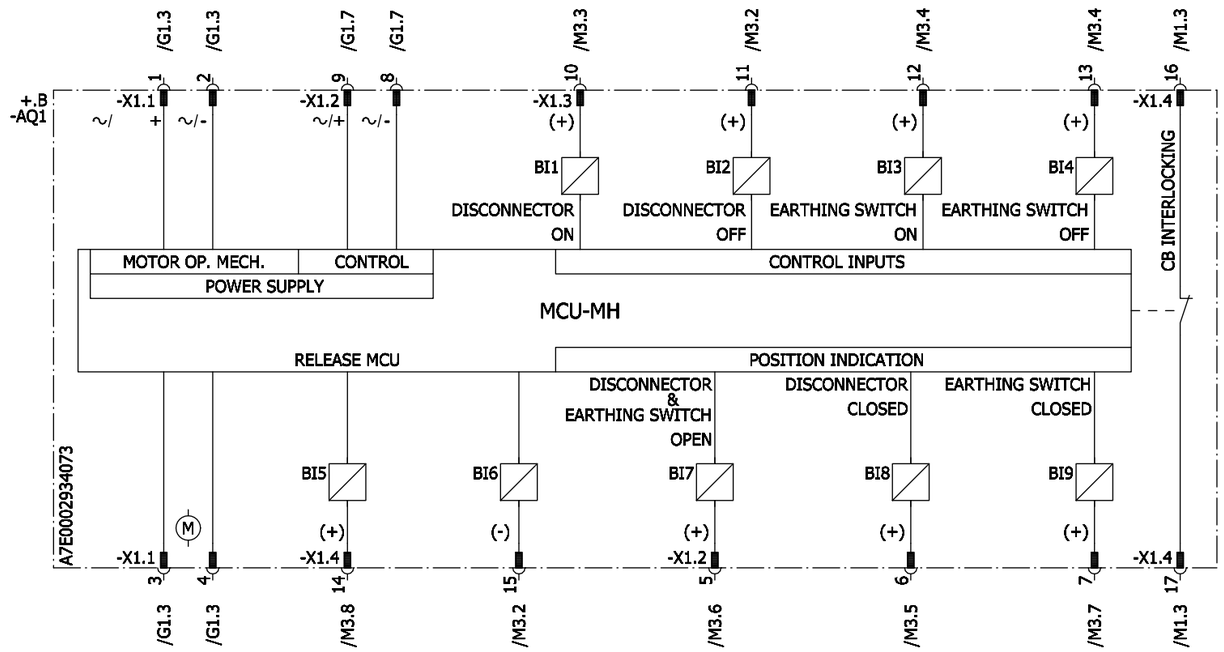
P< P>

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	=HZ02.2.1	S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER		+H19 Z4
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		VOIS +	998574-000501	(3) W92210-L1965-S195-A Sheet 4+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		10 Sh.



ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / 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:

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
PROTECTION DEVICE
Circuit diagram

=HZ02.2.1 S =H19
+H19 Z5
998574-000501 (3) W92210-L1965-S195-A
Sheet 5+
10 Sh.

+.T
-F31

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

IO102

-1

TRANSFORMER INPUTS

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

BINARY INPUTS

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

BINARY OUTPUTS

/M2.2	B7	BO 1.1
/M2.2	B8	
/M5.2	B10	
/M5.2	B9	BO 1.2
/M5.2	B11	
/M11.7	B13	
/M11.6	B12	BO 1.3
/M11.7	B14	
/M1.7	D1	BO 1.4
/M1.8	D3	BO 1.5
/M1.8	D5	BO 1.6
/M1.7	D2	

PS101

POWER SUPPLY

-2

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

BINARY INPUTS

/M4.2	L12	L+	BI 2.1
/M4.2	L14	L+	BI 2.2
/M4.3	L13	L+	
/M4.2	L11		BI 2.3

BINARY OUTPUTS

/M5.2	L3	
/M5.2	L4	BO 2.1
/M11.7	L5	
/M11.7	L6	
/M11.7	L8	BO 2.2

/M7.4	L10	
/M7.4	L7	LIVE CONTACT
/M7.4	L9	

FP	FRONT INTERFACE USB
J	SYSTEM INTERFACE
G	D-Sub 9

E1		LC DUPLEX INTERFACE
E2		
F1		
F2		

PE (PE)
/S1.4

IO110

-3

BINARY INPUTS

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

BINARY OUTPUTS

/M3.2	M2	BO 3.1
/M3.3	M3	BO 3.2
/M3.4	M4	BO 3.3
/M3.4	M5	BO 3.4
/M3.2	M1	
	M6	NC
/M11.5	M8	BO 3.5
/M11.5	M9	BO 3.6
/M11.6	M10	BO 3.7
/M11.5	M7	

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / Z / 6

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

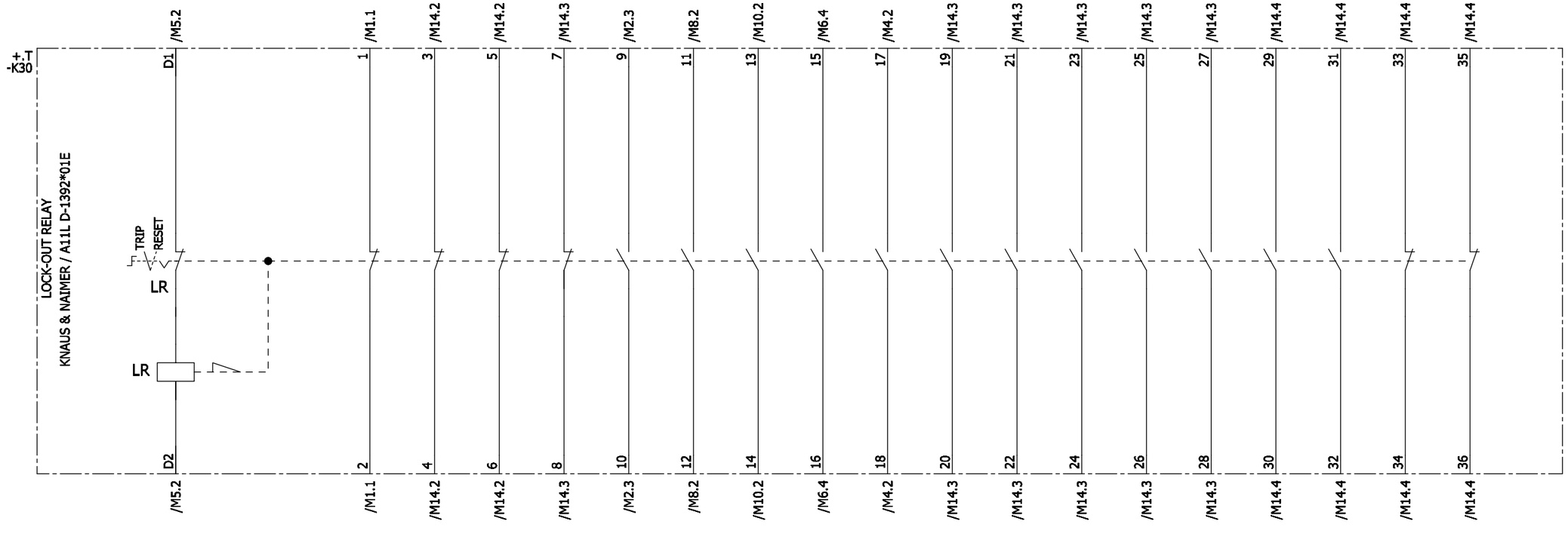
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

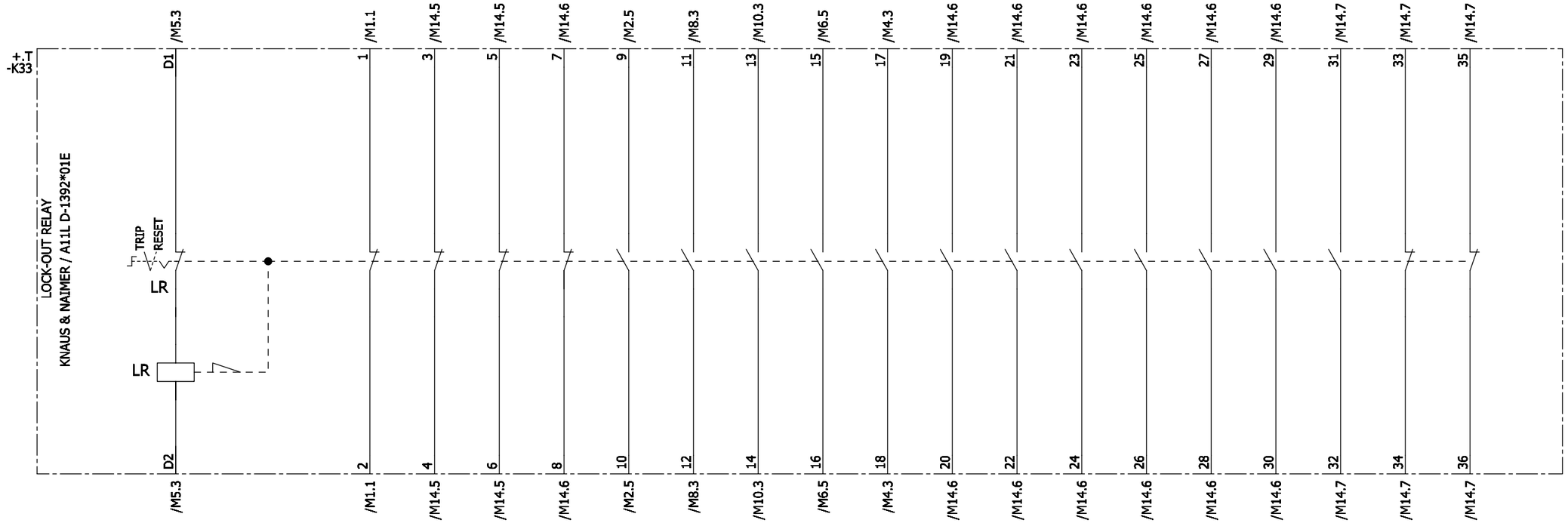
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 Z6
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501 (3) W92210-L1965-S195-A Sheet 6+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	10 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / Z / 7

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

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





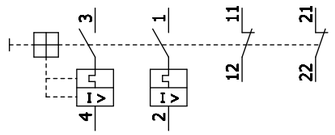
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 Z7
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501 (3) W92210-L1965-S195-A Sheet 7+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	10 Sh.

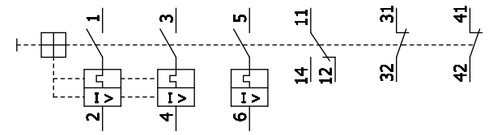
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / Z / 8

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

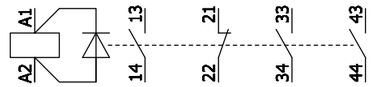
Project: C:/Herrmann/998574-000501.pro
Symbol library1: PTD60617
Symbol library2: PTD_M2_CoC_E
Symbol library3:
Symbol library4:



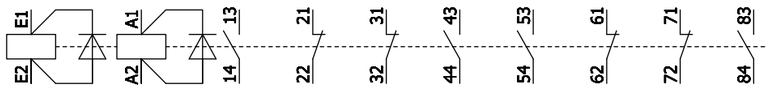
5SY5232-7 +.B 2-pol, C 32A -F1 5ST3012 2NC CB. MOTOR DRIVE	/G2.3	/G2.3	/M6.6	/M7.2
5SY5232-7 +.B 2-pol, C 32A -F2 5ST3012 2NC CONTROL/PROTECTION	/G2.4	/G2.4	/M8.6	
5SY5232-7 +.B 2-pol, C 32A -F3 5ST3012 2NC TPS. MOTOR DRIVE	/G2.5	/G2.6	/M6.7	/M7.3
5SY5204-7 +.B 2-pol, C 4A -F10 5ST3012 2NC CB. MOTOR DRIVE	/G1.2	/G1.2	/M6.6	/M7.2
5SY5206-7 +.B 2-pol, C 6A -F20 5ST3012 2NC CONTROL/PROTECTION	/G1.5	/G1.5	/M8.5	
5SY5202-7 +.B 2-pol, C 2A -F11 5ST3012 2NC TPS. MOTOR DRIVE	/G1.3	/G1.3	/M6.7	/M7.2



3RV1611-1DG14 +.B 3RV2901-1C -F40 3A PROTECTION/METERING	/S3.2	/S3.2	/S3.2		/M6.8	/M7.3



3RH2131-1BG40 +.B 3RT2916-1DG00 -K1 125V DC CB. OFF EXTERNAL	/M5.4	/M1.6			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K2 125V DC CB. ON EXTERNAL	/M5.4	/M1.6		/M1.7	
3RH2131-1BG40 +.B 3RT2916-1DG00 -K50 125V DC MCB. TRIP	/M7.2	/M8.5			/M4.6
3RH2131-1BG40 +.B 3RT2916-1DG00 -K51 125V DC VT MCB. TRIP	/M7.3	/M8.5			/M4.7
3RH2131-1BG40 +.B 3RT2916-1DG00 -K52 125V DC LIVE STATUS CONTACTS	/M7.4	/M8.7			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K53 125V DC SF6-GAS ALARM "LOW"	/M7.5			/M9.2	/M4.7
3RH2131-1BG40 +.B 3RT2916-1DG00 -K1A 125V DC SF6-GAS ALARM "LOW"	/M5.5	/M3.3			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K1E 125V DC SF6-GAS ALARM "LOW"	/M5.6	/M3.3			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K5A 125V DC SF6-GAS ALARM "LOW"	/M5.6	/M3.4			
3RH2131-1BG40 +.B 3RT2916-1DG00 -K5E 125V DC SF6-GAS ALARM "LOW"	/M5.7	/M3.5			



3RH2422-1BG40 +.B 3RH2911-1FA22 -K40 2 x 3RT2916-1DG00 125V DC CB. STATUS "OFF/ON"	/M6.2	/M6.2	/M12.3	/M12.3	/M12.4	/M12.4	/M12.5	/M12.5	/M12.5	/M12.6

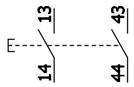
				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER SECONDARY EQUIPMENT Circuit diagram
				Drawn	Herrmann			
A	change PCMI II	29.04.21	HE	Appr.	Jacobi			
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		

=HZ02.2.1	S	=H19	
		+H19	Z8
998574-000501	(3) W92210-L1965-S195-A		Sheet 8+ 10 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / Z / 9

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

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

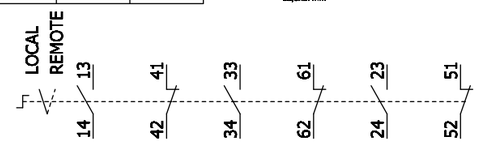


	3SU1000-0AB20-0AA0	/M1.4	/M1.6
+.T	RED		
-S0E	3SU1500-0AA10-0AA0		
	3SU1400-1AA10-1DA0		
	3SU1900-0AN10-0AA0		
	PRINT-3SU-27-12-01-04		

CB ON
12,5x27mm

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

CB OFF
12,5x27mm



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	/M6.3
+.T	ILLUMINATION green	
-H0A	3SU1401-1BH40-1AA0	
	3SU1900-0AG10-0AA0	
	3SU1500-0AA10-0AA0	
	PRINT-3SU-27-12-01-04	

CB. OFF

	3SU1001-6AA20-0AA0	/M6.3
+.T	ILLUMINATION red	
-H0E	3SU1401-1BH20-1AA0	
	3SU1900-0AG10-0AA0	
	3SU1500-0AA10-0AA0	
	PRINT-3SU-27-12-01-04	

CB. ON

	3SU1001-6AA60-0AA0	/M6.4
+.T	ILLUMINATION white	
-H30	3SU1401-1BH60-1AA0	
	3SU1900-0AG10-0AA0	
	3SU1500-0AA10-0AA0	
	PRINT-3SU-27-12-01-04	

PROTECTION TRIP

	3SU1001-6AA30-0AA0	/M6.6
+.T	ILLUMINATION yellow	
-H40	3SU1401-1BH30-1AA0	
	3SU1900-0AG10-0AA0	
	3SU1500-0AA10-0AA0	
	PRINT-3SU-27-12-01-04	

DC. MCB TRIP

	3SU1001-6AA30-0AA0	/M6.8
+.T	ILLUMINATION yellow	
-H50	3SU1401-1BH30-1AA0	
	3SU1900-0AG10-0AA0	
	3SU1500-0AA10-0AA0	
	PRINT-3SU-27-12-01-04	

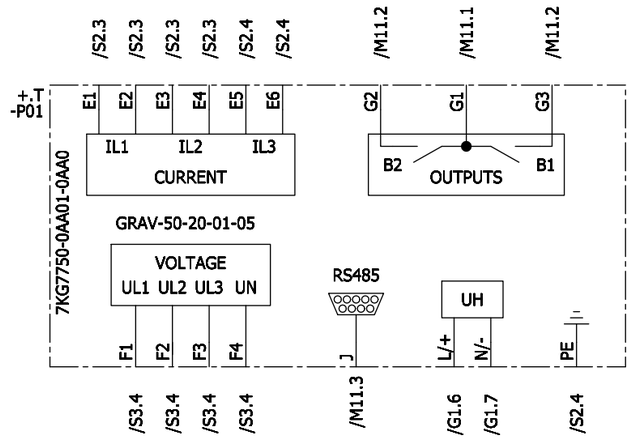
PT. MCB TRIP

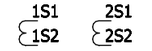
				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.2.1 S =H19
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19 Z9
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501 (3) W92210-L1965-S195-A Sheet 9+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	10 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBSTP2
Archive: =H19 / S / Z / 10

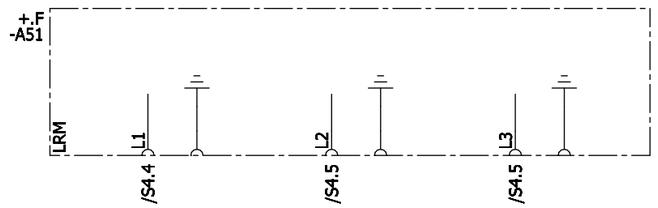
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2

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





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	=HZ02.2.1 S =H19	
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER	+H19	Z10
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		SECONDARY EQUIPMENT	998574-000501	(3) W92210-L1965-S195-A Sheet 10-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram		10 Sh.

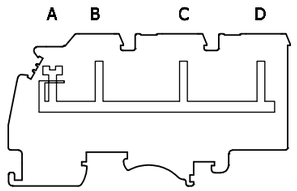
ELCAD-Version 7.7.1 SP2
Last used: 29.04.21 FBKLP2-13
Archive: =H19 / V / / / 1

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 -XR1 Link	Term.-no.	Cross-ref.	Termination B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
		11	=H00/G3.6	=H18 +.B -XR1 :11 D	-F10 :3	
		12	=H00/G3.6	=H18 +.B -XR1 :12 D	-F10 :1	
		13	=H00/G3.6	=H18 +.B -XR1 :13 D	-F20 :3	
		14	=H00/G3.6	=H18 +.B -XR1 :14 D	-F20 :1	
		15	=H00/G3.6	=H18 +.B -XR1 :15 D	-XC30 :389 D	
		16	=H00/G3.6	=H18 +.B -XR1 :16 D	-XC30 :390 D	
		21	=H00/G3.6	=H18 +.B -XR1 :21 D	-F40 :1	
		22	=H00/G3.6	=H18 +.B -XR1 :22 D	-F40 :3	
		23	=H00/G3.6	=H18 +.B -XR1 :23 D	-F40 :5	
		24	=H00/G3.6	=H18 +.B -XR1 :24 D	-XT15 :553 A	
		25	=H00/G3.6	=H18 +.B -XR1 :25 D	-F11 :3	
		26	=H00/G3.6	=H18 +.B -XR1 :26 D	-F11 :1	
		31	=H00/G3.6	=H18 +.B -XR1 :31 D	-XC30 :367 D	
		32	=H00/G3.6	=H18 +.B -XR1 :32 D	-XC30 :370 D	
		33	=H00/G3.6	=H18 +.B -XR1 :33 D	-XC30 :381 D	
		34	=H00/G3.6	=H18 +.B -XR1 :34 D	-XC30 :384 D	
		35	=H00/G3.6	=H18 +.B -XR1 :35 D	-XC30 :387 D	
		36	=H00/G3.6	=H18 +.B -XR1 :36 D	-XC30 :388 D	
		41	=H00/G9.7	=H18 +.B -XR1 :41 D		-XR1 :45 D
		42	=H00/G9.7	=H18 +.B -XR1 :42 D		
		43	=H00/G9.7	=H18 +.B -XR1 :43 D		
		44	=H00/G9.7	=H18 +.B -XR1 :45 D	-XQ1 :131 D	
		45	=H00/G9.7		-XQ1 :132 D	-XR1 :41 D
		46	=H00/G9.7	=H18 +.B -XR1 :46 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
=H19+.B-XR1
Connection table

=HZ02.2.1 | V | =H19 | +.B | /1

998574-000501 | (3) W92210-L1965-S198-A | Sheet 1+ 15 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
111-262	URTK/SP	
110PE,210PE	URTKD/SP	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 20

Terminal strip -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
N-bus
PE-PEN-bus
Used cores total
Continued on sheet

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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-11_I
Archive: =H19 / 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:

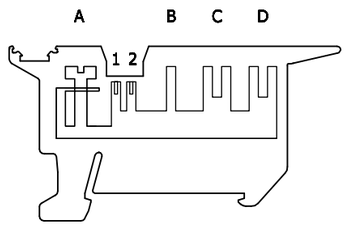
Revision	Modification	Date	Name			
				Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XT1
Connection table

=HZ02.2.1 V =H19 +.B /2
998574-000501 (3) W92210-L1965-S198-A
Sheet 2+ 15 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: 301-906
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 168

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination — Item designation				Terminal strip: Link	Term.-no.	Cross-ref.	Slot B Destination — Item designation	Termination C Destination — Item designation			Termination D Destination — Item designation		
				-XC30									
				1 2 JUMPER									
		-AQ1-X1.2	:9		301	/G1.5		+.T	-F31-2	:L1		-F20	:4
					302	/G1.5					+.T	-S20	:41
					303	/G1.5		+.T	-P01	:L/+	+.T	-F31-1	:D2
					304	/G1.5					+.T	-F31-1	:B7
=XX	+XX	-XX	:XX		305	/G1.5		+.T	-S20	:23			
					306	/G1.5			-XQ1	:133 D		-XQ0	:51 A
=PAS	+Panel	-XX	:XX		307	/G1.5			-XQ0	:23 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	/M7.4			-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						-XC30	:353 Y
					325	/G1.5		+.T	-F31-2	:L11		-AQ1-X1.4	:15
					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	/M6.3		+.T	-H30	:X2	+.T	-H0E	:X2
					332	/M6.6		+.T	-H50	:X2	+.T	-H40	:X2
					333	/M7.2			-K51	:A2		-K50	:A2
					334	/M7.4						-K52	:A2
					335	/M7.5			-K53	:A2			
					336	/M7.6							
					337	/M7.7							
					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

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
=H19+.B-XC30
Connection table

=HZ02.2.1 | V | =H19 | +.B | /3

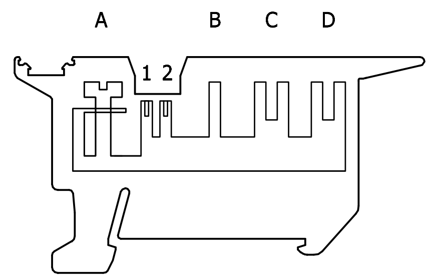
998574-000501 | (3) W92210-L1965-S198-A | Sheet 3+ | 15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H19 / V / / / 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:

	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: 301-906
Terminal block type: VBSTB 4-FS
Wire type: FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 168

Cable connection to termination: A B C D

Terminal strip: -XC30 (Link: 1 2 JUMPER)

Termination A Destination Item designation	Link (slot 1)	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
=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	/M5.2		+.T -F31-2 :L4	+.T -K30 :D1
=XX +XX -XX :XX		358	/M5.3		+.T -F31-1 :B10	+.T -K33 :D1
	■	360	/M6.4		+.T -H30 :X1	+.T -K30 :16
	■	361	/M6.5			+.T -K33 :16
		362	/M6.6		-F10 :12	+.T -H40 :X1
		363	/M6.8		-F40 :32	+.T -H50 :X1
		364	/M7.3		-K51 :A1	-F40 :42
		365	/M7.2		-K50 :A1	-F10 :22
		366	/M7.4		+.T -F31-2 :L10	-K52 :A1
	■	367	/M9.2		+.T -K30 :11	-XR1 :31 C
	■	368	/M9.3			+.T -K33 :11
	■	369	/M9.2			+.T -K30 :12
	■	370	/M9.3		+.T -K33 :12	-XR1 :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
	■	381	/M9.5		-K50 :13	-XR1 :33 C
	■	382	/M9.5		-F20 :11	-K51 :13
	■	383	/M9.6			-F2 :11
	■	384	/M9.5		-K50 :14	-XR1 :34 C
	■	385	/M9.5		-F20 :12	-K51 :14
	■	386	/M9.6			-F2 :12
		387	/M9.7		-K52 :13	-XR1 :35 C
		388	/M9.7		-K52 :14	-XR1 :36 C
		389	/M10.2		-K53 :33	-XR1 :15 C
		390	/M10.2		-K53 :34	-XR1 :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	
		394	/M12.2		+.T -P01 :G2	
		395	/M12.2		+.T -P01 :G3	
		397	/M2.6			+.T -F31-3 :N3

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

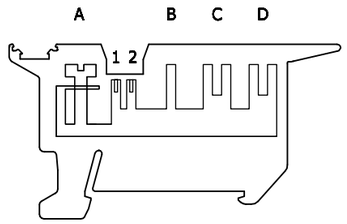
Revision	Modification	Date	Name			
				Date	07.04.2021	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XC30
Connection table

=HZ02.2.1 V =H19 +.B /4
998574-000501 (3) W92210-L1965-S198-A
Sheet 4+
15 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: 301-906
Terminal block type: VBSTB 4-FS
Wire type:

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 168

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				
		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
		440	/M15.5			+.T -K33 :6
		441	/M15.6			+.T -K33 :8
		443	/M15.6			+.T -K33 :20

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

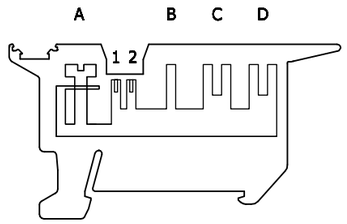
A Cable clamp — Cover
B Screen bus — Insulation plate
C Screwed cable gland — Higher level insulation plate
D Plug housing — Test socket
E Insulated — Disconnector

				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	
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by	

8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XC30
Connection table

=HZ02.2.1 V =H19
+.B /5
998574-000501 (3) W92210-L1965-S198-A
Sheet 5+
15 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
301-906	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 168

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					
					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	/M5.4			-K1 :A1
=PAS	+Panel	-XX	:XX		469	/M5.4			-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
					484	/M12.7			+.T -F31-2 :L8
=PAS	+Panel	-XX	:XX		490	/M5.5			-K1A :A1
=PAS	+Panel	-XX	:XX		491	/M5.6			-K1E :A1

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

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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H19 / V / / / 6

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

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

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
=H19+.B-XC30
Connection table

=HZ02.2.1 | V | =H19 | +.B | /6

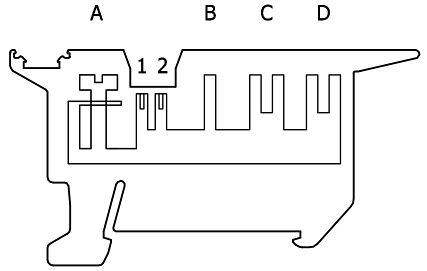
998574-000501 | (3) W92210-L1965-S198-A | Sheet 6+ | 15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H19 / 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:

	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
301-906	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 168

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9	Termination A Destination Item designation					Terminal strip -XC30 Link (1 2 JUMPER)	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
									=PAS	+Panel	-XX	:XX		⊖ □ □ ●	492	/M5.6			-K5A :A1
									=PAS	+Panel	-XX	:XX	⌒	⊖ □ □ ●	493	/M5.7			-K5E :A1
									=XX	+XX	-X	:XX		⊖ □ □ ●	901	/G2.3			-F1 :3
									=XX	+XX	-X	:XX		⊖ □ □ ●	902	/G2.3			-F1 :1
									=XX	+XX	-X	:XX		⊖ □ □ ●	903	/G2.4			-F2 :3
									=XX	+XX	-X	:XX		⊖ □ □ ●	904	/G2.4			-F2 :1
									=XX	+XX	-X	:XX		⊖ □ □ ●	905	/G2.5			-F3 :3
									=XX	+XX	-X	:XX		⊖ □ □ ●	906	/G2.6			-F3 :1

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
=H19+.B-XC30
Connection table

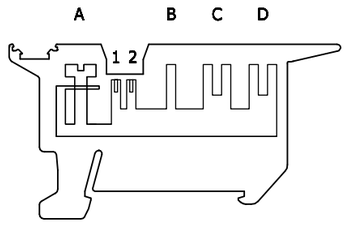
=HZ02.2.1 V =H19 +.B /7

998574-000501 (3) W92210-L1965-S198-A

Sheet 7+
15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H19 / V / / / 8

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



1 = Slot 1
2 = Slot 2

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

FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 60

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation	Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
	-XQ0					
	1 2 JUMPER					
		11	/M5.8	+.L -Q0-X09 :1		-XQ1 :534 D
		12	/M5.8	+.L -Q0-X09 :0		-XC30 :328 A
		13	/M2.2	+.L -Q0-X10 :3		-XQ0 :21 D
		14	/M2.2	+.L -Q0-X10 :2		
		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 :307 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	/M6.3	+.L -Q0-X12 :1		-XQ0 :61 C
		42	/M6.3	+.L -Q0-X12 :0		+.T -H0A :X1
		43	/M6.3	+.L -Q0-X13 :9		
		44	/M6.3	+.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	/M6.2	+.L -Q0-X13 :2	-XQ0 :41 D	
		62	/M6.2	+.L -Q0-X13 :1		-K40 :E1
		64	/M6.2	+.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

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:/Hermann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

Revision	Modification	Date	Name
A	change PCMI II	29.04.21	HE

Date 07.04.2021
Drawn Herrmann
Appr. Jacobi
Norm

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

Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XQ0
Connection table

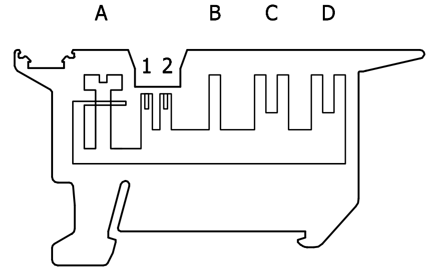
=HZ02.2.1 V =H19
+.B /8
998574-000501 (3) W92210-L1965-S198-A
Sheet 8+
15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H19 / V / / / 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:

	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

Terminal strip: -XQ0 (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
		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

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

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

Siemens AG

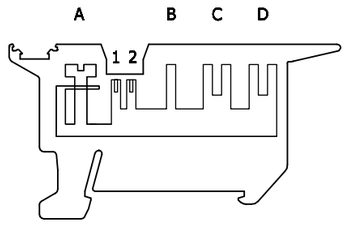
8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XQ0
Connection table

=HZ02.2.1 V =H19 +.B /9

998574-000501 (3) W92210-L1965-S198-A

Sheet 9+
15 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		-XR1 :44 C
		132	/M10.6	+.D -Q1-X11 :2		-XR1 :45 C
		133	/M3.5	+.D -Q1-X11 :1	-XQ1 :541 D	-XC30 :306 C
		134	/M3.5	+.D -Q1-X11 :0		-AQ1-X1.2 :6
		141	/M3.6	+.D -Q1-X12 :3		-XQ1 :542 D
		142	/M3.6	+.D -Q1-X12 :2		-AQ1-X1.2 :5
		143	/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	/M5.8	+.D -Q1-X51 :1	-XC30 :307 D	
		534	/M5.8	+.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	Vena new energy company / TW
				Drawn	Herrmann	Siemens Limited (Taipei)
				Appr.	Jacobi	33KV MAIN SUBSTATION
				Norm		Orig./Prep.for/Prep.by

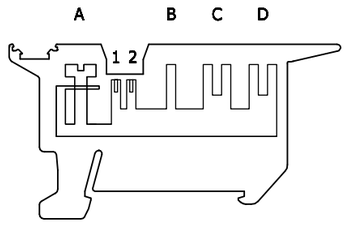
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XQ1
Connection table

=HZ02.2.1 V =H19
+.B /10
998574-000501 (3) W92210-L1965-S198-A
Sheet 10+ 15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H19 / V / / / 11
Translate file A: A_COC_DE
Translate file B: leer1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2
Project: C:/Herrmann/998574-000501.pro
Symbol library 1: PTD60617
Symbol library 2: PTD_M2_CoC_E
Symbol library 3:
Symbol library 4:

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



1 = Slot 1
2 = Slot 2

Terminal: 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					
		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	/Z2.6	+.D -Q1-X82 :3		
		816	/Z2.6	+.D -Q1-X82 :2		
		817	/M3.8	+.D -Q1-X82 :1		-XQ1 :543 D
		818	/M3.8	+.D -Q1-X82 :0		-XQ0 :31 D
		890	/M7.5	+.D -B0-X88 :3	-XC30 :312 C	-XB11 :100 C
		891	/M7.5	+.D -B0-X88 :2	-XQ1 :892 C	-K53 :A1
		892	/M7.6	+.D -B0-X88 :1	-XQ1 :891 C	-XB11 :101 D
		893	/Z4.3	+.D -B0-X88 :0		

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

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

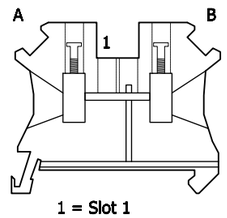
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XQ1
Connection table

=HZ02.2.1 V =H19 /11
+.B
998574-000501 (3) W92210-L1965-S198-A
Sheet 11+ 15 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			
=H19 +.BPE		1	/S4.8	
=H19 +.BPE		2	/S1.4	-XT1 :110PE A
		3	/S2.5	-XT1 :210PE A
		4	/S2.4	+.T -P01 :PE
		5	/S4.8	
		6	/S4.8	
		7	/S4.8	
		8	/S4.8	

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

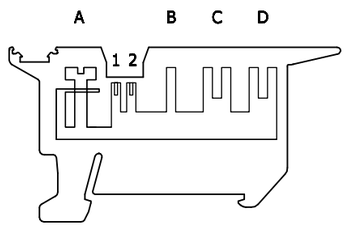
Siemens AG

8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XPE
Connection table

=HZ02.2.1 V =H19 +.B /12

998574-000501 | (3) W92210-L1965-S198-A | Sheet 12+ 15 Sh.

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



1 = Slot 1
2 = Slot 2

Terminal	Terminal block type	Wire type
550-557	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 5

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination Item designation		Terminal strip Link	Term.-no.	Cross-ref.	Slot B Destination Item designation	Termination C Destination Item designation		Termination D Destination Item designation	
		-XT15							
		1 2 JUMPER							
-F40	:2		550	/S3.2		-XT	:108 B	-XT	:100 B
-F40	:4		551	/S3.2		-XT	:109 B	-XT	:101 B
-F40	:6		552	/S3.2		-XT	:110 B	-XT	:102 B
-XR1	:24 C		553	/S3.3		-XT15	:557 C	-XT	:103 B
			557	/S3.4		-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			
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
=H19+.B-XT15
Connection table

=HZ02.2.1	V	=H19		
		+.B		/13
998574-000501	(3) W92210-L1965-S198-A			Sheet 13+ 15 Sh.

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-11_I
Archive: =H19 / V / / / 14

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

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

	Cable 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

Termination A Destination Item designation			Terminal strip Link	Term.-no.	Cross-ref.	Termination B Destination Item designation	
			-XT				
+.T	-F31-1	:B1		100	/S3.2	-XT15	:550 D
+.T	-F31-1	:B3		101	/S3.2	-XT15	:551 D
+.T	-F31-1	:B4		102	/S3.2	-XT15	:552 D
+.T	-F31-1	:B2		103	/S3.3	-XT15	:553 D
+.T	-P01	:F1		108	/S3.4	-XT15	:550 C
+.T	-P01	:F2		109	/S3.4	-XT15	:551 C
+.T	-P01	:F3		110	/S3.4	-XT15	:552 C
+.T	-P01	:F4		111	/S3.4	-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

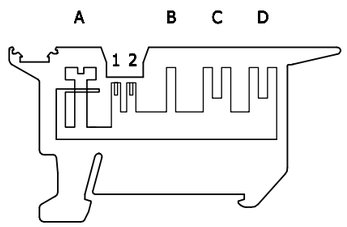
8DA10 SWITCHGEAR 33,0 kV
FEEDER
=H19+.B-XT
Connection table

=HZ02.2.1 V =H19 +.B /14

998574-000501 (3) W92210-L1965-S198-A

Sheet 14+
15 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
100-103	VBSTB 4-FS	
		FOR DETAILS SEE CIRCUIT DIAGRAM

No. of Terminals (in total) : 4

Cable connection to termination

A B C D

1	2	3	4	5	6	7	8	9

Termination A Destination

Item designation

Terminal strip

-XB11

Link	Term.-no.	Cross-ref.
1 2 JUMPER		
	100	/M7.6
	101	/M7.6
	102	/M7.7
	103	/M7.7

Slot B Destination Item designation	Termination C Destination Item designation	Termination D Destination Item designation
+.F -B11-XB11 :3	-XQ1 :890 D	
+.F -B11-XB11 :2		-XQ1 :892 D
+.F -B11-XB11 :1		
+.F -B11-XB11 :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

ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBKLP2-13-VBSTB4
Archive: =H19 / 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:

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
=H19+.B-XB11
Connection table

=HZ02.2.1 V =H19 +.B /15

998574-000501 (3) W92210-L1965-S198-A Sheet 15-15 Sh.