

for

PurchaserVena new energy company / TW

UserSiemens Limited (Taipei)

Plant33KV MAIN SUBSTATION

Plant section8DA10 SWITCHGEAR 33,0 kV
FEEDER
OUTGOING FEEDER

Typical=HZ02.1.1

Project reference number

Date of issue29.04.21

Customer document number

A	change PCMI I2	29.04.21	HE
Revision	Modification	Date	Name

SIEMENS AG

Archive: =H18 / A / / 1

Project: 998574-000501

Documentation identifierA / =H18 / / 1

Manufacturer document number(3) W92210-L1965-U181-A

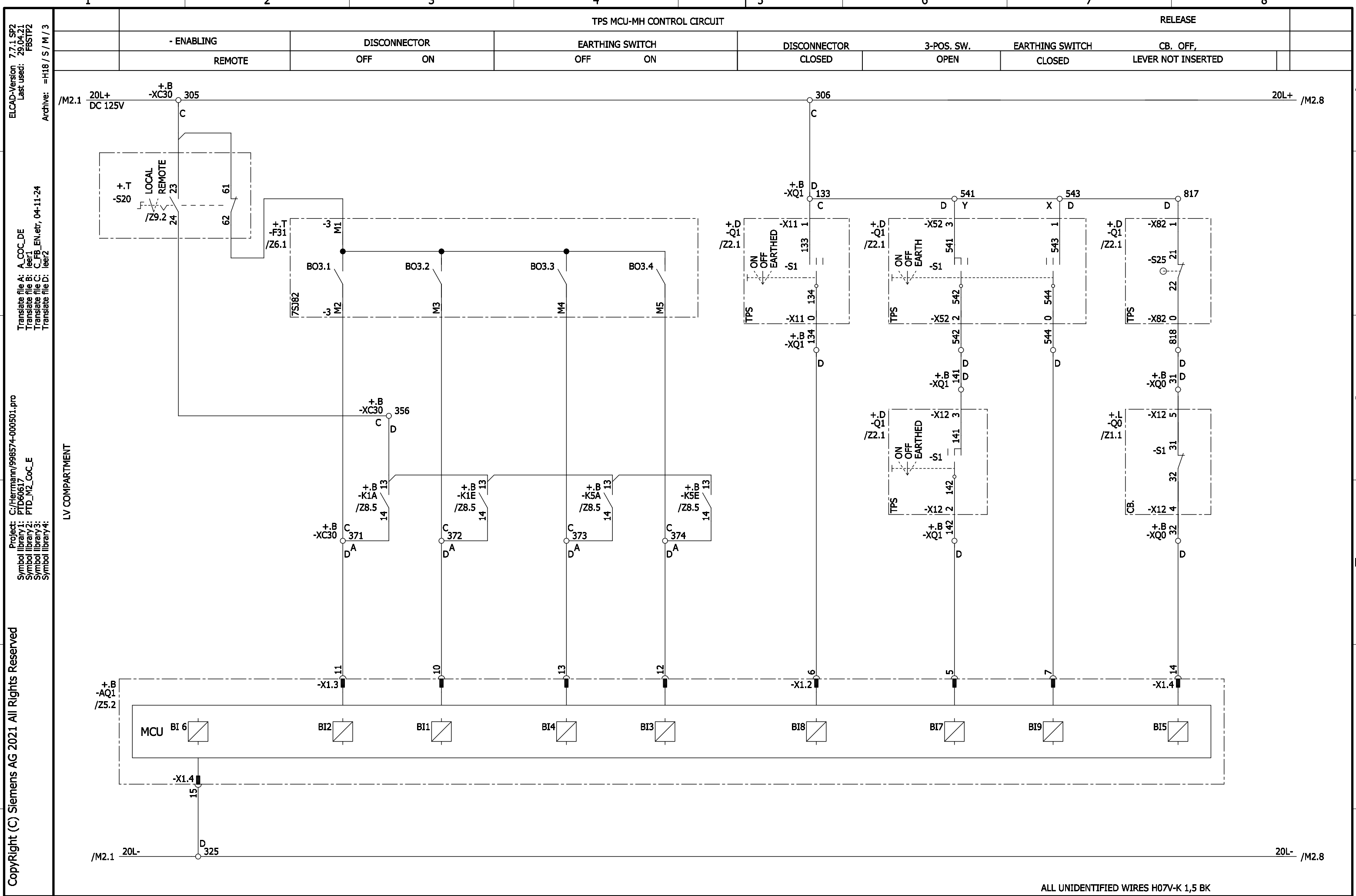
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	Designation			Manufacturer document number Customer document number			Sheet		Sheets		Date		Description				Prepared by			
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E	Date 07.04.2021			Vena new energy company / TW			Siemens AG		8DA10 SWITCHGEAR 33,0 kV FEEDER				=HZ02.1.1 A =H18							
	Drawn Herrmann			Siemens Limited (Taipei)													A1			
	A change PCMI I 29.04.21			HE Appr. Jacobi			33KV MAIN SUBSTATION										Sheet 1+			
	Revision			Modification			Date		Name		Norm		Orig./Prep.for/Prep.by				4 Sh.			
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				Date	07.04.2021	Vena new energy company / TW				8DA10 SWITCHGEAR 33,0 kV				=HZ02.1.1	A	=H18															
				Drawn	Herrmann	Siemens Limited (Taipei)				FEEDER						+H18	A2														
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	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															
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	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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				Date	07.04.2021	Vena new energy company / TW				8DA10 SWITCHGEAR 33,0 kV				=HZ02.1.1	A	=H18															
				Drawn	Herrmann	Siemens AG				FEEDER						+H18	A4														
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION								998574-000501	(3) W92210-L1965-L182-A			Sheet 4-													
Revision	Modification	Date	Name	Norm	Orig./Prep.for/Prep.by				List of documents									4 Sh.													
1				2				3				4				5				6				7				8			

[illegible]



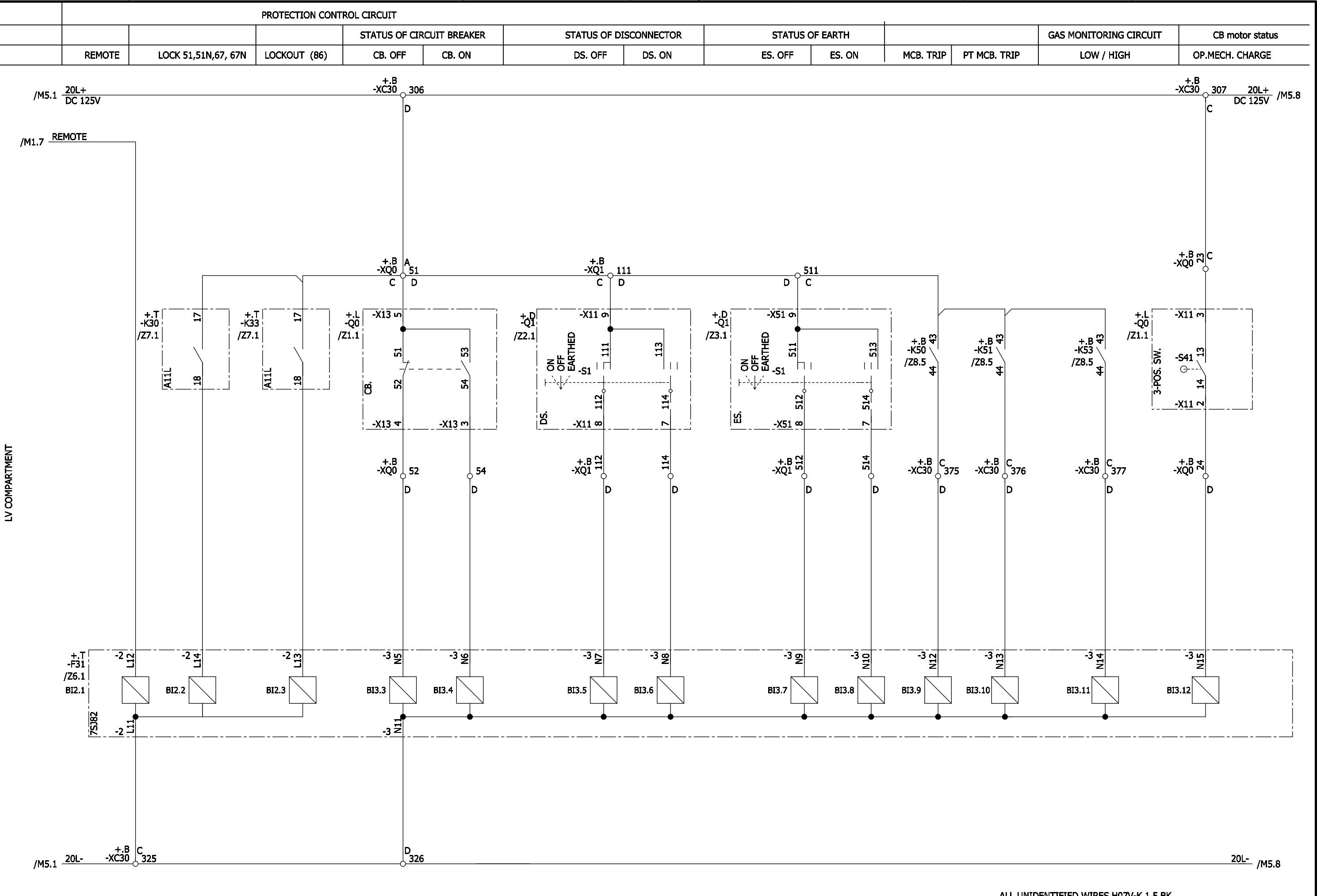
			Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER CONTROL, CB. CLOSING/TRIPPING	=HZ02.1.1 S		=H18	
			Drawn	Herrmann						+H18	M3
A	change PCMI II	29.04.21	HE	Appr.				Jacobi	998574-000501	(3) W92210-L1965-S185-A	
Revision	Modification	Date	Name	Norm	Orig./Prep.for/Prep.by		Circuit diagram	15 Sh.			
1					2	3	4	5	6	7	8

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ELCAD-Version 7.7.1 SP2
Last used: 29.04.21
FBSTP2
Archive: =H18 / S / M / 4

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

Translate file A: A_CoC_DE
Translate file B: leer1
Translate file C: C_FB_EN_etr, 04-11-24
Translate file D: leer2



				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	ALL UNIDENTIFIED WIRES H07V-K 1,5 BK				
				Drawn	Herrmann				=HZ02.1.1	S	=H18		
A	change PCMI I	29.04.21	HE	Appr.	Jacobi				+H18		M4		
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by			998574-000501	(3) W92210-L1965-S185-A		Sheet 4+	
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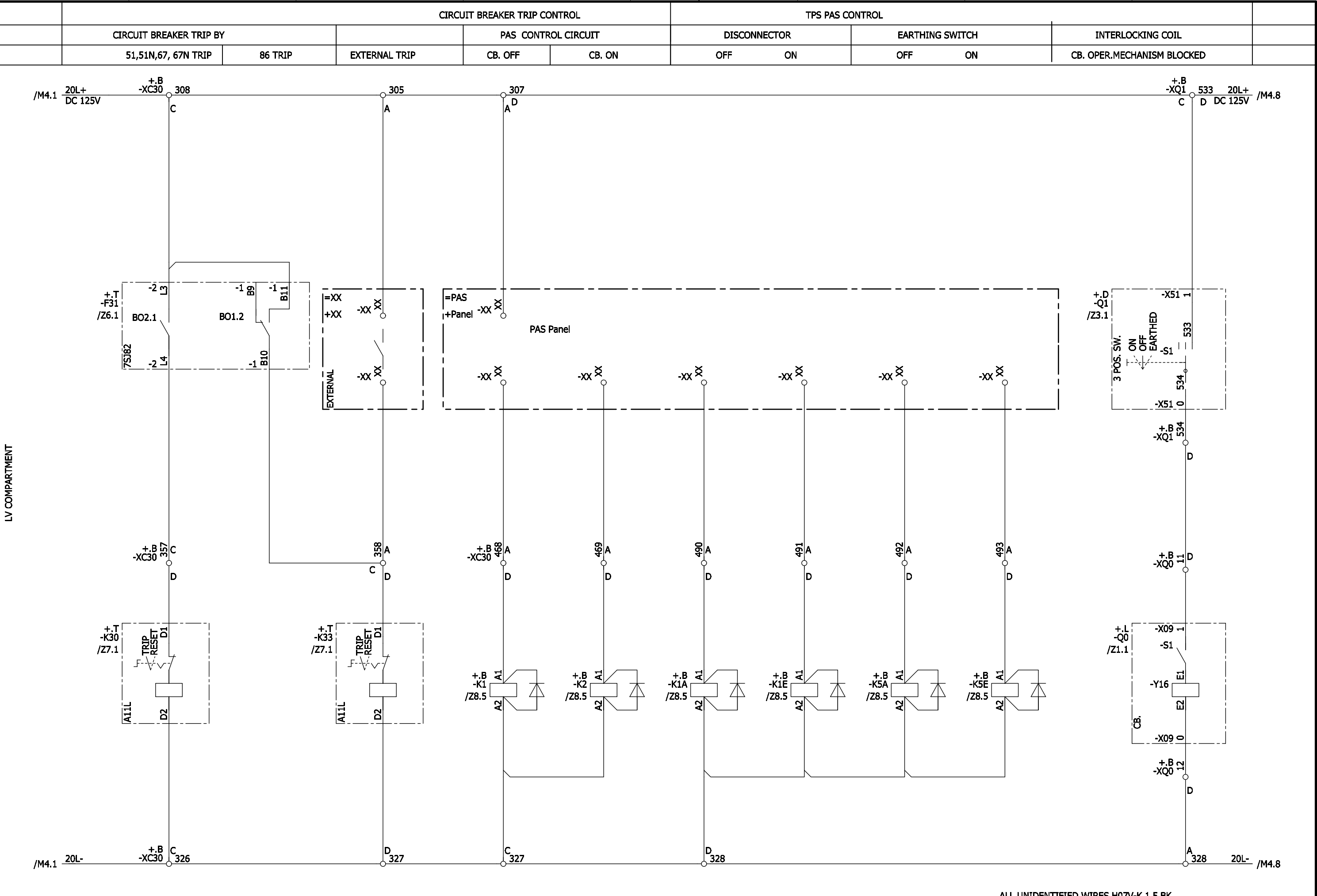
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ELCAD-Version 7.7.1.SP2
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Translate file A: A_CoC_DE
Translate file B: lee1
Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: lee2



				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	=HZ02.1.1 S		=H18	M5
				Drawn	Herrmann							
A	change PCMI I	29.04.21	HE	Appr.	Jacobi	Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S185-A		Sheet 5+
Revision	Modification	Date	Name	Norm								15 Sh.

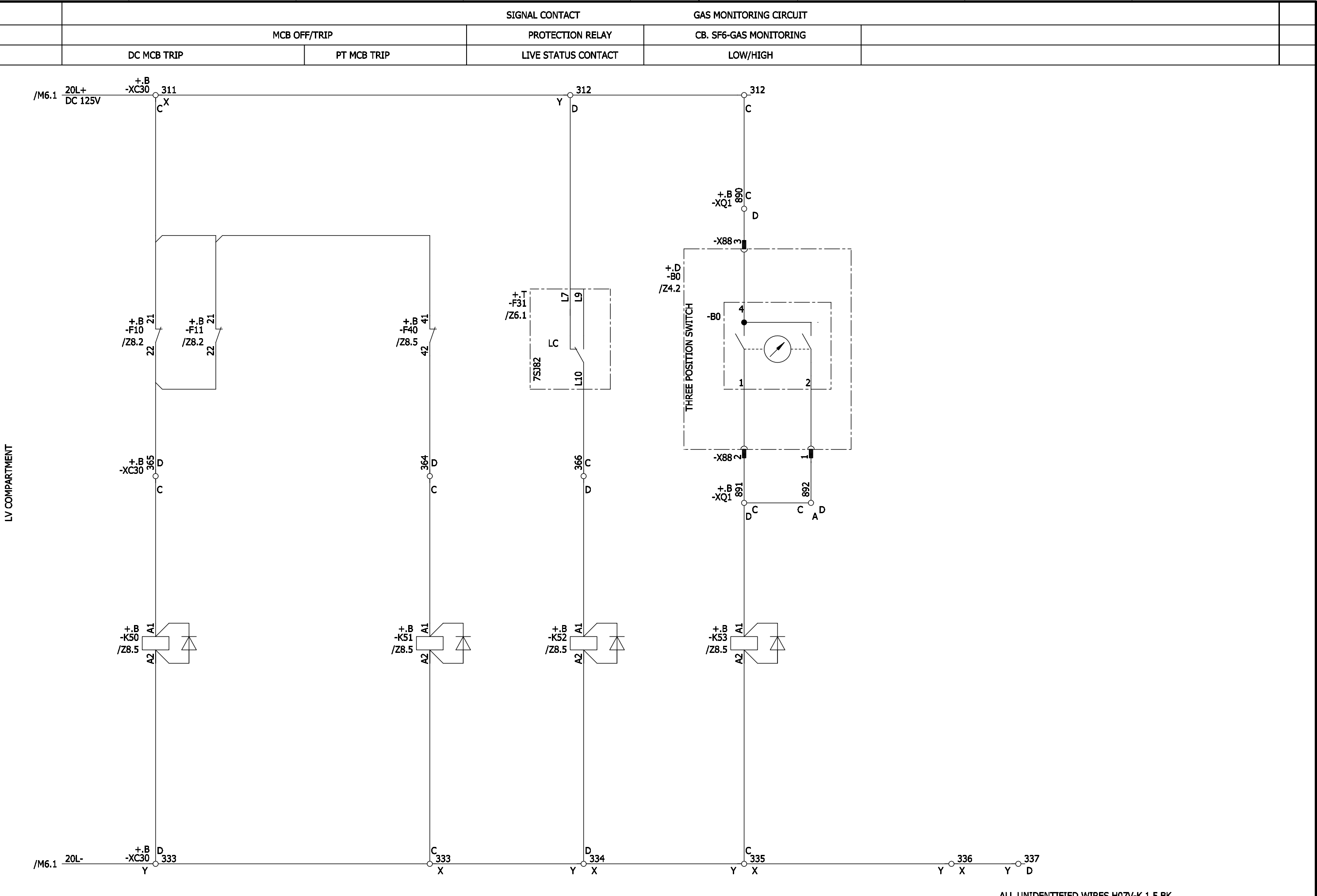
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Translate file C: C_FB_EN.etr, 04-11-24
Translate file D: leer2



					Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER SIGNAL CONTACT FOR EXTERNAL Circuit diagram	ALL UNIDENTIFIED WIRES H07V-K 1,5 BK			
					Drawn	Herrmann				=HZ02.1.1	S	=H18	
A	change PCMI I	29.04.21	HE	Appr.	Jacobi					+H18		M7	
Revision	Modification	Date	Name	Norm	Orig./Prep.for/Prep.by					998574-000501	(3) W92210-L1965-S185-A		Sheet 7+
												15 Sh.	

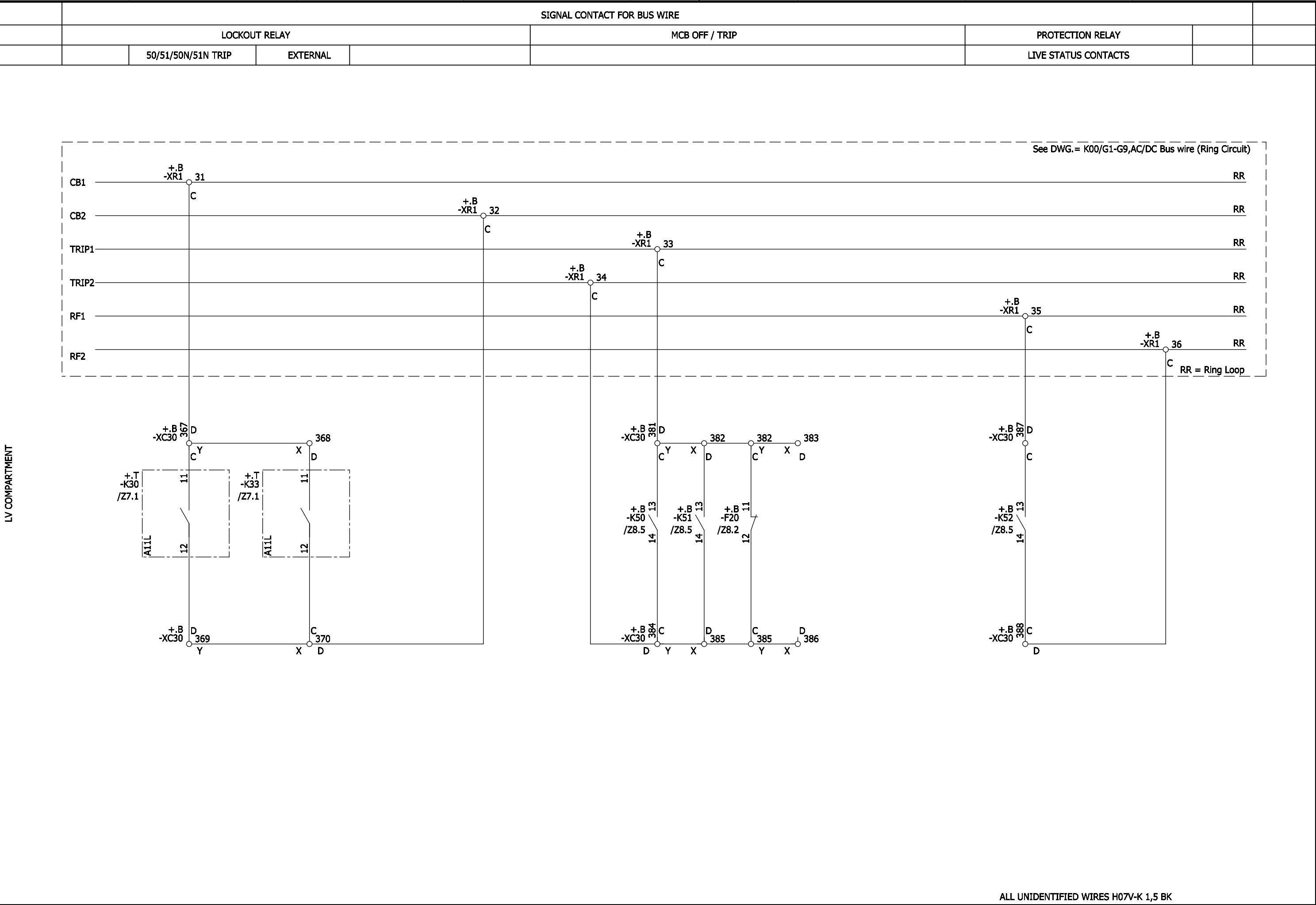
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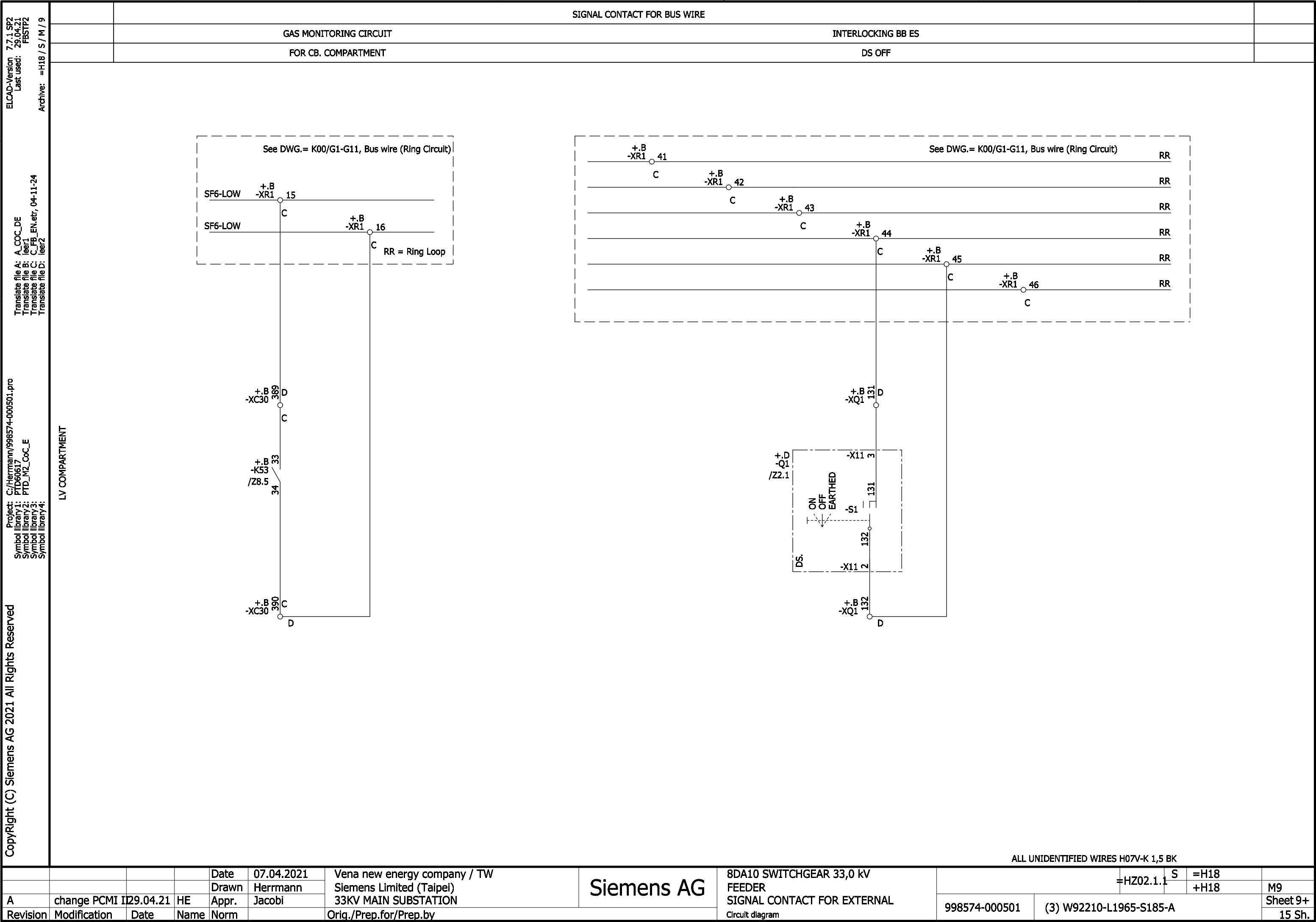
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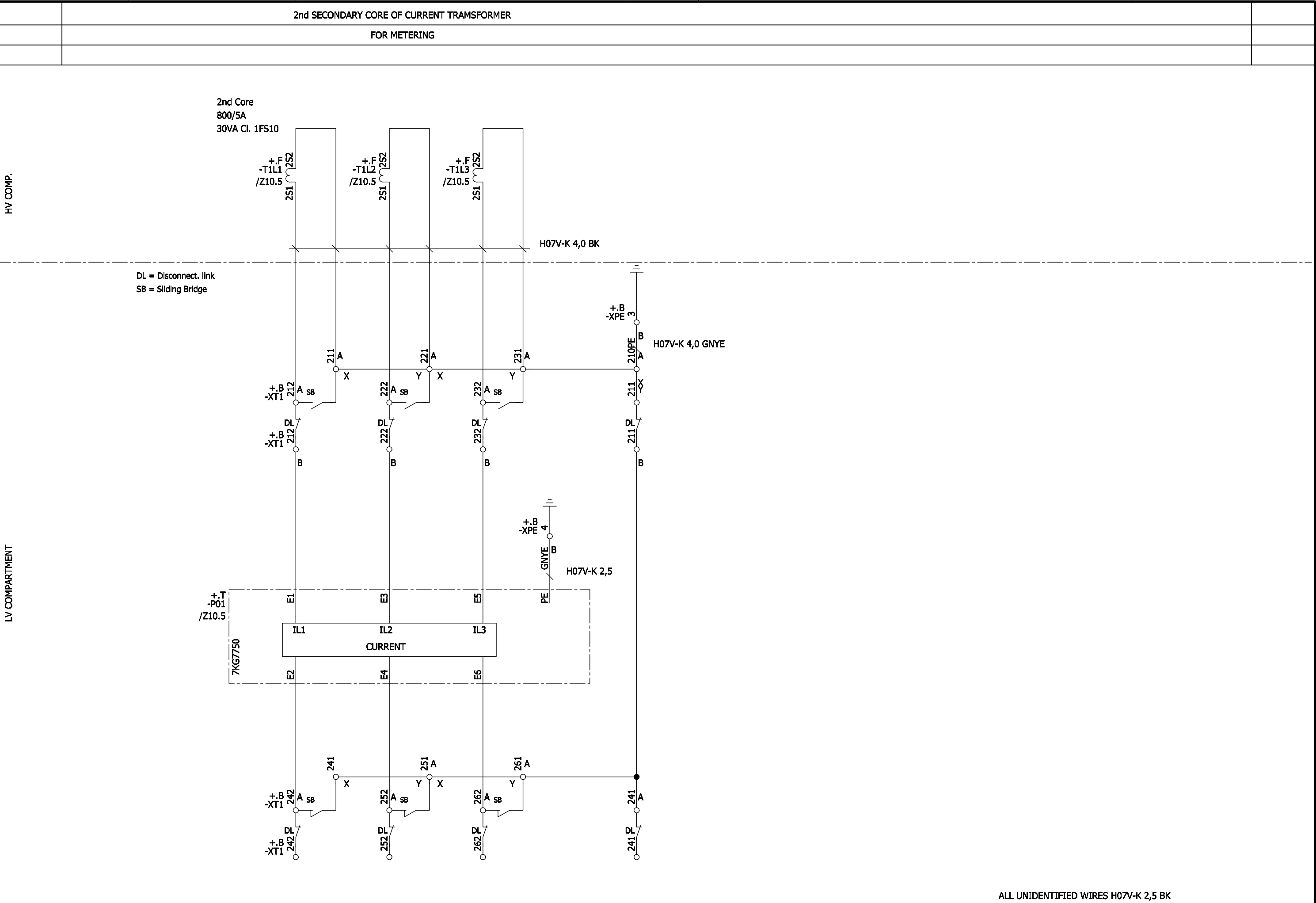


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				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER TRANSFORMER CIRCUITS			=HZ02.1.1	S	=H18			
				Drawn	Herrmann									+H18		S2
A	change PCMI I	29.04.21	HE	Appr.	Jacobi											Sheet 2+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S185-A				4 Sh.		

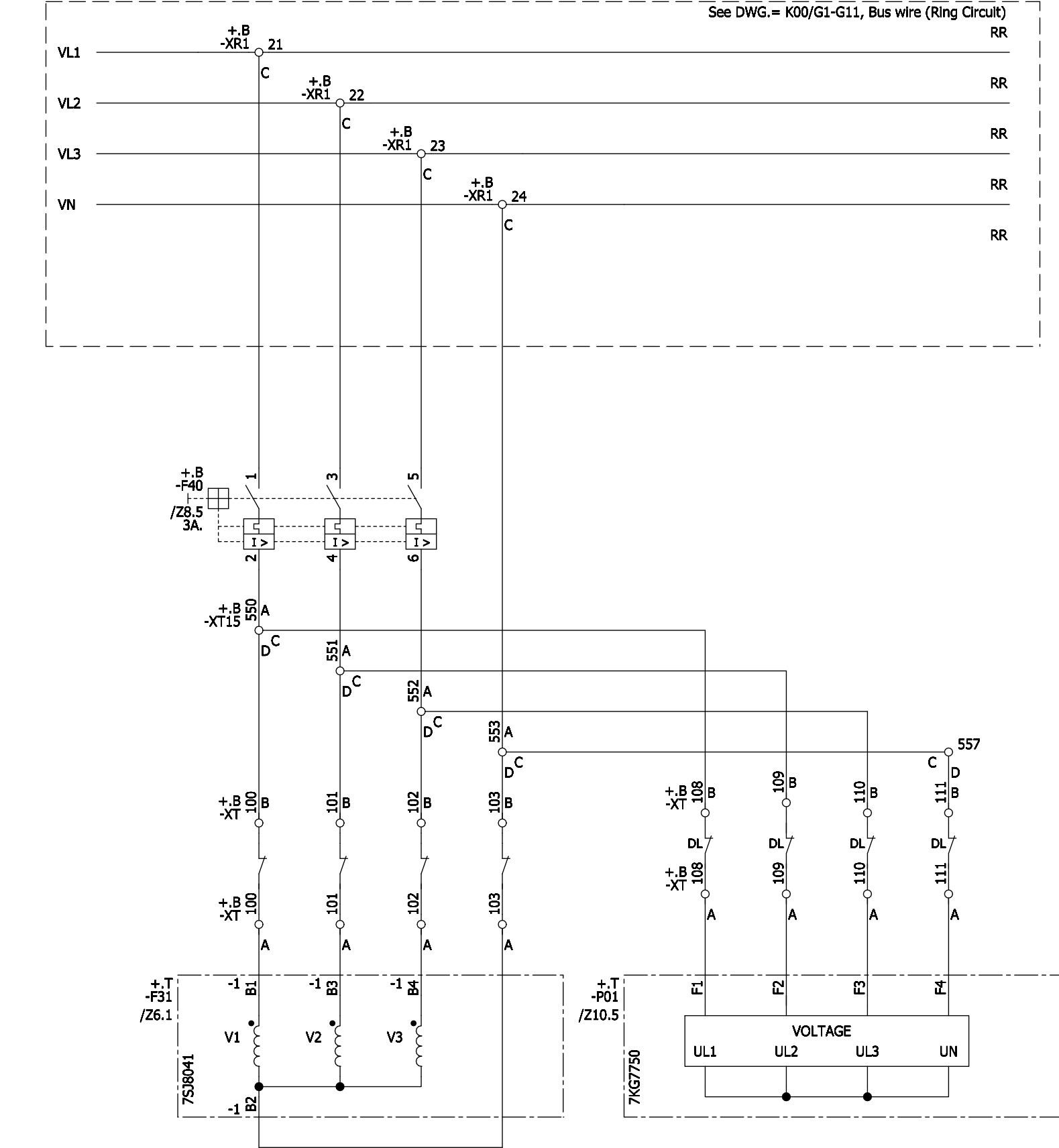
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Symbol library 2: PTD_M2_CoC_E
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Revision



ALL UNIDENTIFIED WIRES H07V-K 2,5 BK

Date		07.04.2021		Vena new energy company / TW		Siemens AG		8DA10 SWITCHGEAR 33,0 kV		=HZ02.1.1 S		=H18			
Drawn		Herrmann		Siemens Limited (Taipei)				FEEDER				+H18		S3	
A		change PCMI I		29.04.21		HE		Appr.		Jacobi		33KV MAIN SUBSTATION		Sheet 3+	
Revision		Modification		Date		Name		Norm		Orig./Prep.for/Prep.by		Circuit diagram		4 Sh.	

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Project: C:/Herrmann/998574-000501.pro

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Symbol library 3:

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ELCAD-Version 7.7.1 SP2

Last used: 29.04.21

FBSTP2

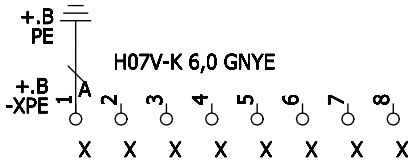
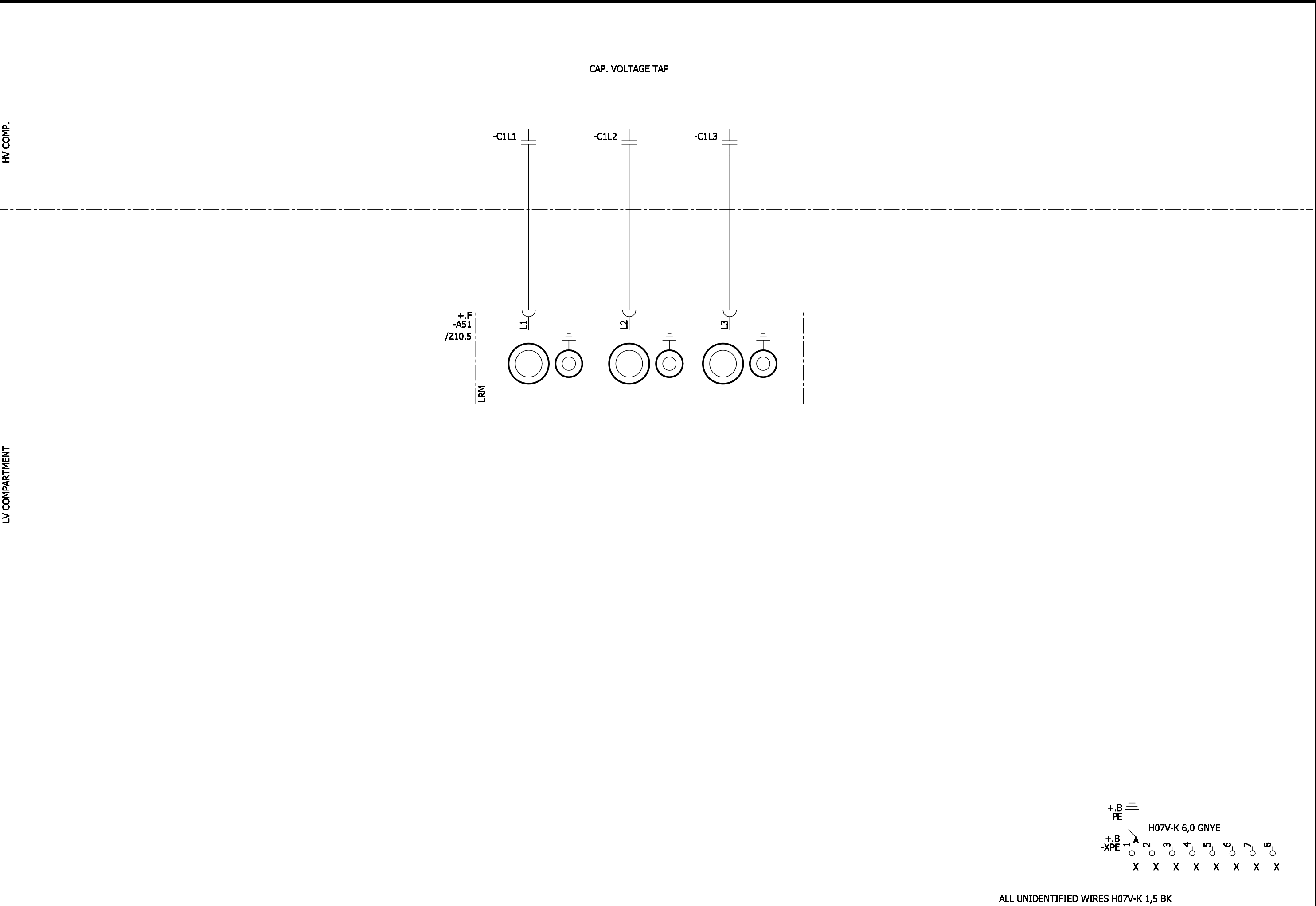
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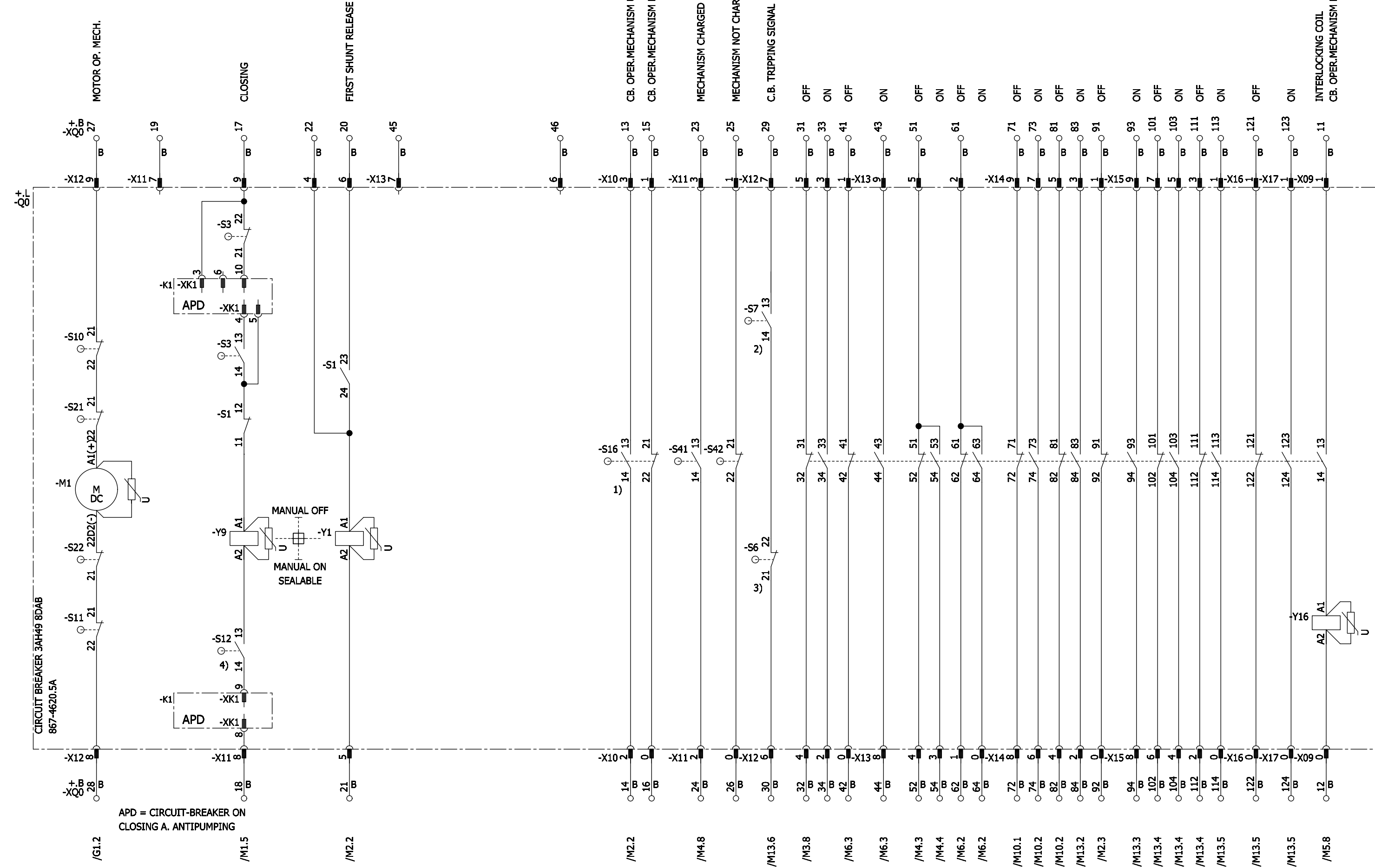
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Archive: =H18 / S / S / 4



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				Drawn	Herrmann						+H18	S4	
A	change PCMI II	29.04.21	HE	Appr.	Jacobi						998574-000501	(3) W92210-L1965-S185-A	
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by						4 Sh.	



1) OPERATES WHEN CB. TRIP IS NOT LOCKED OUT

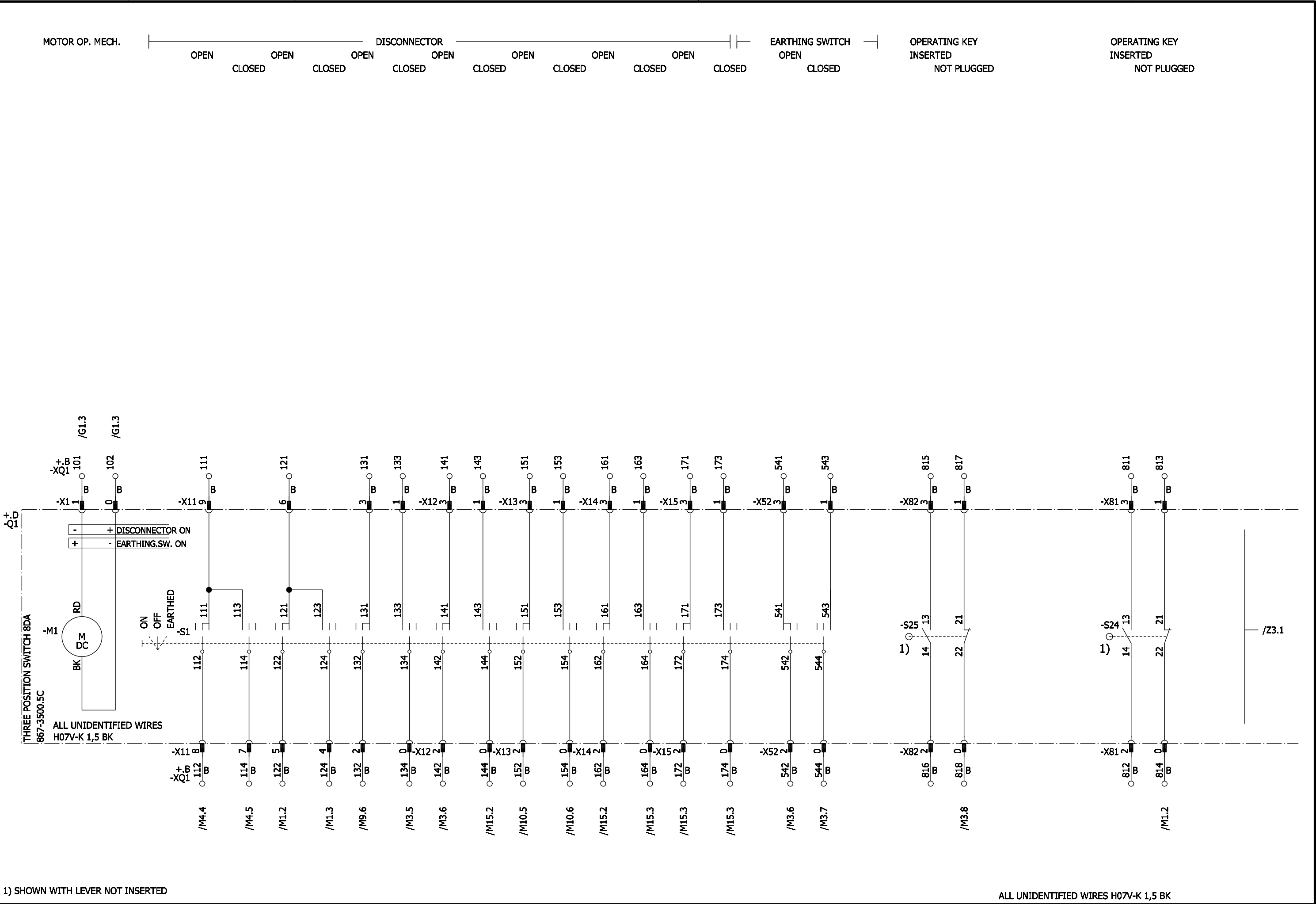
2) OPERATES WHEN MECH. OFF IS NOT PRESSED

3) OPERATES WHEN NO TRIPPING

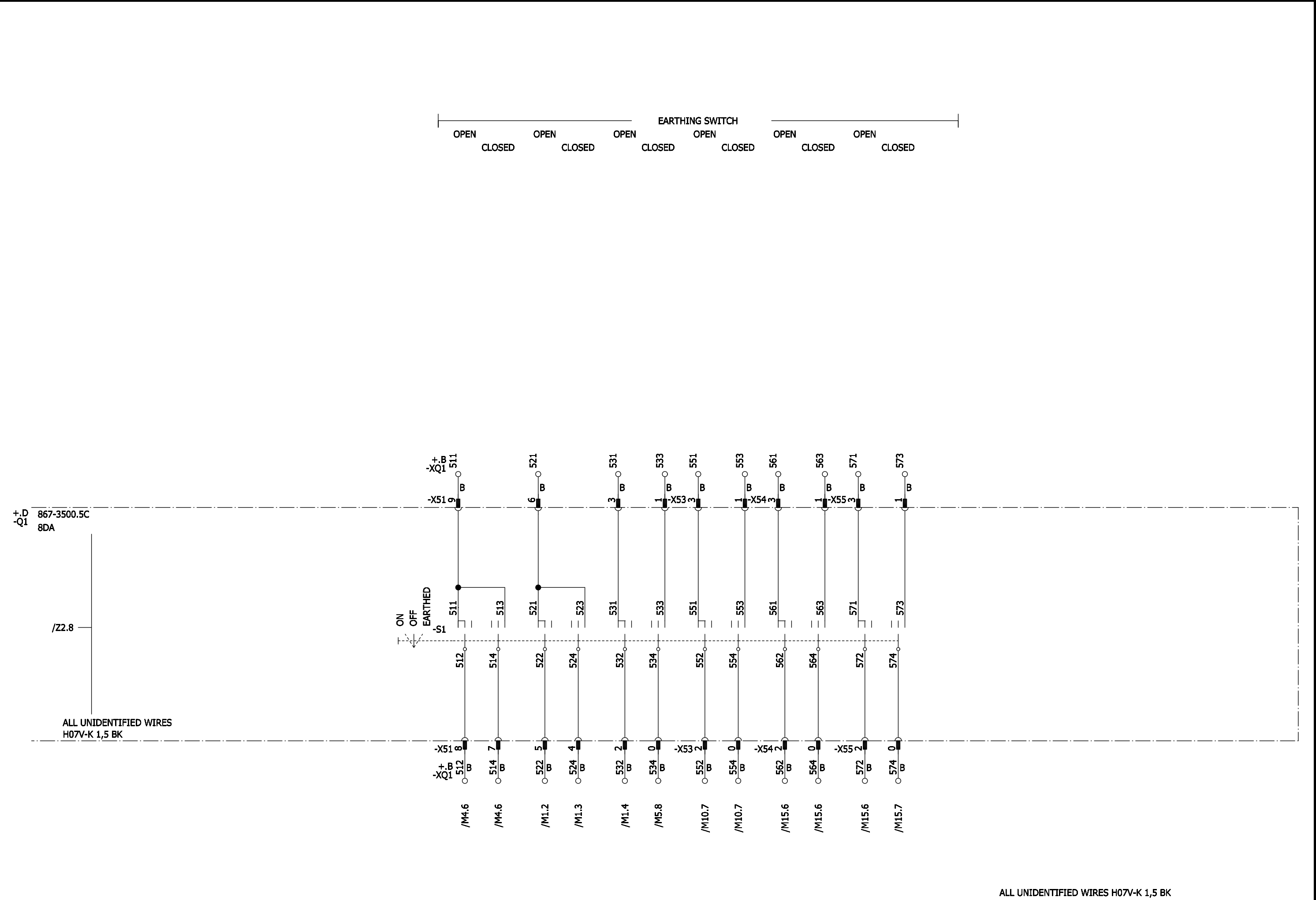
4) INTERLOCKING OF ELECTRICAL CLOSING OF THE CB IN CASE OF MANUAL OPERATION OF THE THREE-POSITION SWITCH

ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER CIRCUIT BREAKER	=HZ02.1.1		S	=H18		
				Drawn	Herrmann	Siemens Limited (Taipei)							+H18	Z1
A	change PCMI II	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION								Sheet 1-
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S185-A		10 Sh		



				Date	07.04.2021	Vena new energy company / TW	Siemens AG	8DA10 SWITCHGEAR 33,0 kV	=HZ02.1.1 S		=H18	
				Drawn	Herrmann	Siemens Limited (Taipei)		FEEDER			+H18	Z2
A	change PCMI I	29.04.21	HE	Appr.	Jacobi	33KV MAIN SUBSTATION		THREE POSITION SWITCH				
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S185-A		Sheet 2+
												10 Sh.

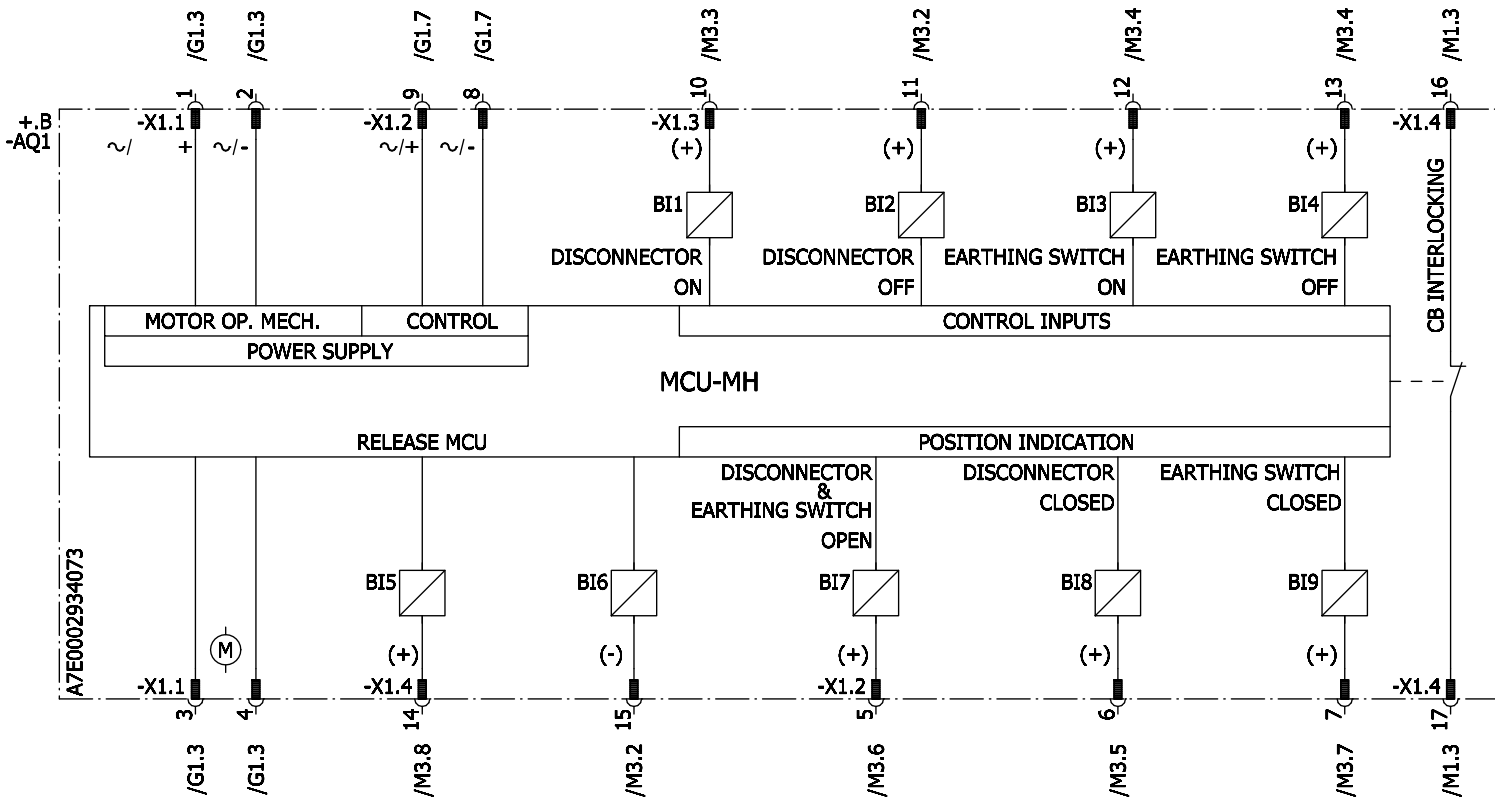


				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER THREE POSITION SWITCH			=HZ02.1.1	S	=H18			
				Drawn	Herrmann									+H18		Z3
A	change PCMI I	29.04.21	HE	Appr.	Jacobi											Sheet 3+
Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S185-A				10 Sh.		

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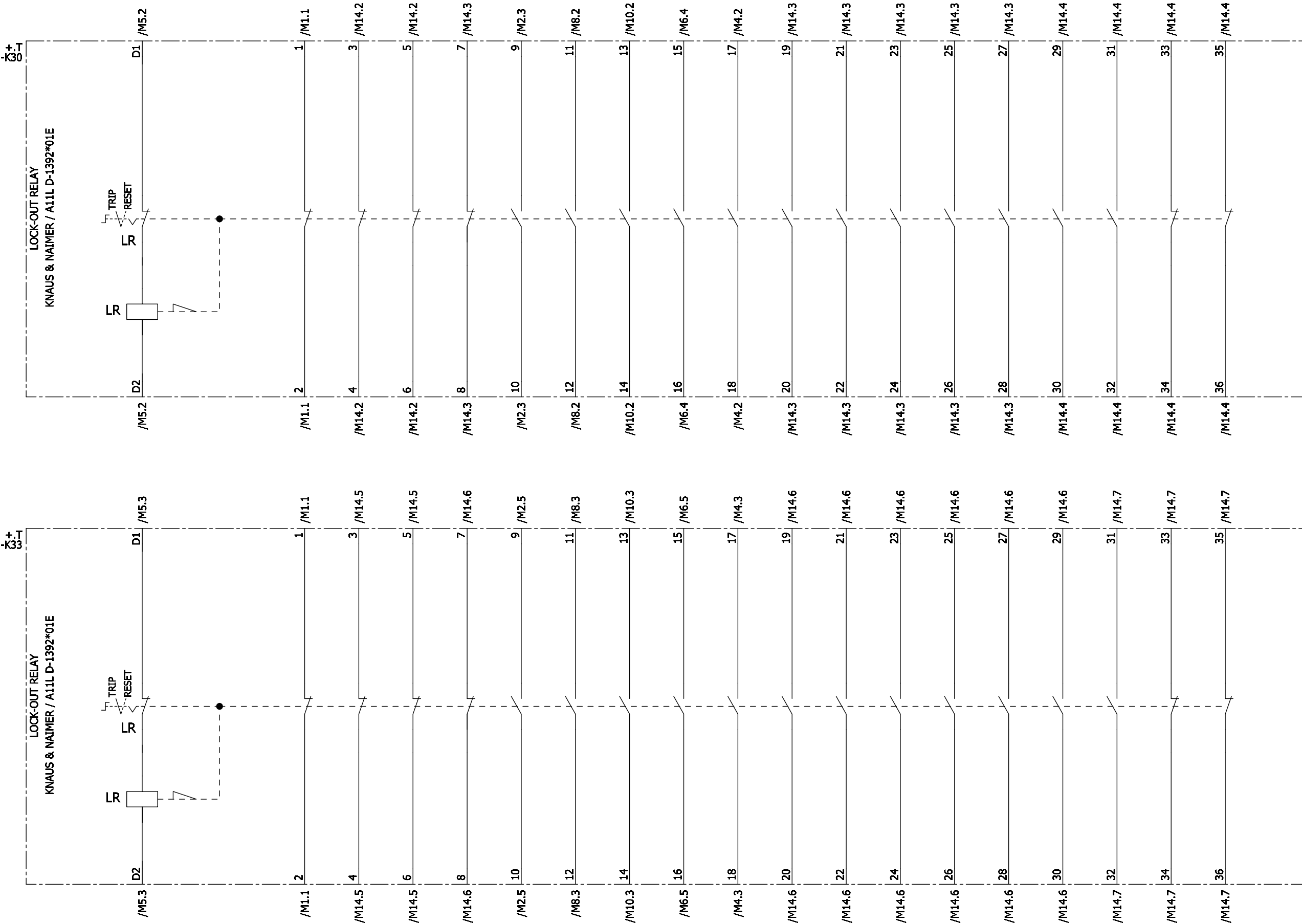


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				+H18	Z4
998574-000501	(3) W92210-L1965-S185-A				Sheet 4+
					10 Sh.



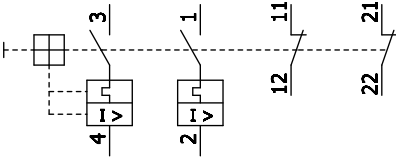
ALL UNIDENTIFIED WIRES H07V-K 1,5 BK

				Date	07.04.2021	Vena new energy company / TW Siemens Limited (Taipei) 33KV MAIN SUBSTATION	Siemens AG	8DA10 SWITCHGEAR 33,0 kV FEEDER PROTECTION DEVICE			=HZ02.1.1	S	=H18			
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Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501		(3) W92210-L1965-S185-A			10 Sh.		

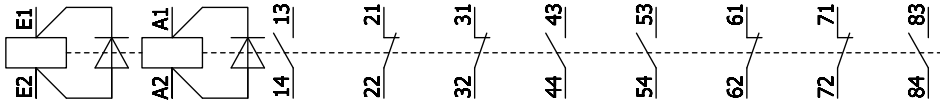


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				Drawn	Herrmann	Siemens Limited (Taipei)							+H18		Z7
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Revision	Modification	Date	Name	Norm		Orig./Prep.for/Prep.by		Circuit diagram	998574-000501	(3) W92210-L1965-S185-A			10 Sh.		

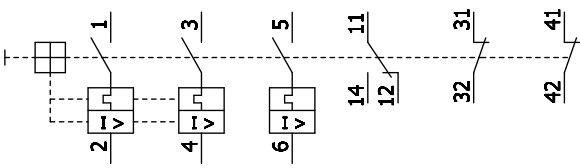
5SY5232-7 +.B 2-pol, C 32A -F1 5ST3012 2NC CB. MOTOR DRIVE				
5SY5232-7 +.B 2-pol, C 32A -F2 5ST3012 2NC CONTROL/PROTECTION				
5SY5232-7 +.B 2-pol, C 32A -F3 5ST3012 2NC TPS. MOTOR DRIVE				
5SY5204-7 +.B 2-pol, C 4A -F10 5ST3012 2NC CB. MOTOR DRIVE	/G1.2	/G1.2	/M6.6	/M7.2
5SY5206-7 +.B 2-pol, C 6A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



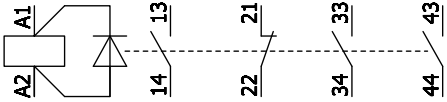
3RH2422-1BG40 +.B 3RH2911-1FA22 -K40 2 x 3RT2916-1DG00 125V DC CB. STATUS "OFF/ON"	/M6.2	/M6.2	/M12.3	/M12.3	/M12.4	/M12.4	/M12.5	/M12.5	/M12.5	/M12.6
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3RV1611-1DG14 +.B 3RV2901-1C -F40 3A PROTECTION/METERING	/S3.2	/S3.2	/S3.2		/M6.8	/M7.3
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3RH2131-1BG40 +.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			



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<div>ELCAD-Version 7.7.1.SP2 Last used: 29.04.21 FBKLP2-13 Archive: =H18/V////1</div> <div>Translate file A: A_COC_DE Translate file B: leet1 Translate file C: C_FB_EN.etr, 04-11-24 Translate file D: leet2</div> <div>Project: C:/Herrmann/998574-000501.pro Symbol library 1: PTD60617 Symbol library 2: PTD_M2_Coc_E Symbol library 3: Symbol library 4:</div> <div>Copyright (C) Siemens AG 2021 All Rights Reserved</div>															Cable designation															Type, no.of cores, cross sec.															Destination, equipment code															Level															<div>A B C D</div> <div>Cable connection to termination</div> <div>A B C D</div> <div>No. of Terminals (in total) : 24</div>															Terminal 11-46															Terminal block type UPCV3K															Wire 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ELCAD-Version 7.7.1.SP2 Last used: 29.04.21 FBKLP2-13-VBSTB4 Archive: =H18 / V / / / 3		Cable designation		Type, no.of cores, cross sec.		Destination, equipment code		Level		<div><div>A B C D</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>1 = Slot 1 2 = Slot 2</div></div></div> <div>Terminal 301-493</div> <div>Terminal block type VBSTB 4-FS</div> <div>Wire type</div> <div>FOR DETAILS SEE CIRCUIT DIAGRAM</div>							
	1																
	2																
	3																
	4																
	5																
	6																
	7																
	8																
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										No. of Terminals (in total) : 162							
Cable connection to termination		Termination A Destination		Termination B Destination		Termination C Destination		Termination D Destination		No. of Terminals (in total) : 162		Slot B Destination		Termination C Destination		Termination D Destination	
A <input type="text"/> B <input type="text"/> C <input type="text"/> D <input type="text"/>		Item designation		Item designation		Item designation		Item designation				Item designation		Item designation		Item designation	
1 2 3 4 5 6 7 8 9		-XC30		-XC30		-XC30		-XC30				-XC30		-XC30		-XC30	
1 2 3 4 5 6 7 8 9		1 2 JUMPER		1 2 JUMPER		1 2 JUMPER		1 2 JUMPER				1 2 JUMPER		1 2 JUMPER		1 2 JUMPER	
		-AQ1-X1.2 :9		-AQ1-X1.2 :9		-AQ1-X1.2 :9		-AQ1-X1.2 :9				-AQ1-X1.2 :9		-AQ1-X1.2 :9		-AQ1-X1.2 :9	
		=XX +XX -XX :XX		=XX +XX -XX :XX		=XX +XX -XX :XX		=XX +XX -XX :XX				=XX +XX -XX :XX		=XX +XX -XX :XX		=XX +XX -XX :XX	
		=PAS +Panel -XX :XX		=PAS +Panel -XX :XX		=PAS +Panel -XX :XX		=PAS +Panel -XX :XX				=PAS +Panel -XX :XX		=PAS +Panel -XX :XX		=PAS +Panel -XX :XX	
		-AQ1-X1.2 :8		-AQ1-X1.2 :8		-AQ1-X1.2 :8		-AQ1-X1.2 :8				-AQ1-X1.2 :8		-AQ1-X1.2 :8		-AQ1-X1.2 :8	
		-XQ0 :12 D		-XQ0 :12 D		-XQ0 :12 D		-XQ0 :12 D				-XQ0 :12 D		-XQ0 :12 D		-XQ0 :12 D	

1				2				3				4				5				6				7				8																			
<div>ELCAD-Version 7.7.1.SP2 Last used: 29.04.21 FBKLP2-13-VBSTB4 Archive: =H18 / V / / / 6</div> <div>Translate file A: A_COC_DE Translate file B: leet1 Translate file C: C_FB_EN.etr, 04-11-24 Translate file D: leet2</div> <div>Project: C:/Herrmann/998574-000501.pro Symbol library 1: PTD60617 Symbol library 2: PTD_M2_Coc_E Symbol library 3: Symbol library 4:</div> <div>Copyright (C) Siemens AG 2021 All Rights Reserved</div>				Cable designation				Type, no.of cores, cross sec.				Destination, equipment code				Level				<div><div>A</div><div>B</div><div>C</div><div>D</div></div> <div><div>1 2</div></div> <div>1 = Slot 1 2 = Slot 2</div>				Terminal 301-493				Terminal block type VBSTB 4-FS				Wire type															
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Cable connection to termination												Termination A Destination								Terminal strip								Slot B Destination				Termination C Destination				Termination D Destination											
A <div></div> B <div></div> C <div></div> D <div></div>												Item designation								Link								Term.- no.				Cross- ref.				Item designation				Item designation				Item designation			
																				-XC30																											
1 2 3 4 5 6 7 8 9																1 2 JUMPER																															
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																				⊖ □ □ • — — 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															
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																				⊖ □ □ • — — 453 /M13.3												-K40 :21															
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																				⊖ □ □ • — — 469 /M5.4												-K2 :A1															
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																				⊖ □ □ • — — 473 /M12.5												+.T -F31-3 :M9															
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																				⊖ □ □ • — — 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															
																				⊖ □ □ • — — 490 /M5.5												-K1A :A1															
																				⊖ □ □ • — — 491 /M5.6												-K1E :A1															
												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				⌒○ Disconnecter																											
				Date		07.04.2021		Vena new energy company / TW				Siemens AG				8DA10 SWITCHGEAR 33,0 kV								=HZ02.1.1 V		=H18																					
A				change PCMI I		29.04.21		HE		Appr.		Jacobi		33KV MAIN SUBSTATION				=H18+.B-XC30								998574-000501		(3) W92210-L1965-S188-A		/6																	
Revision				Modification		Date		Name		Norm		Orig./Prep.for/Prep.by				Connection table												Sheet 6+																			
1																												14 Sh.																			

[illegible]