



**GE Jenbacher**

# Wiring diagram

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The wiring diagram includes : 177 Sheets.


Sportareal Ceska Lipa

1 x JMS 208 GS-N.LC

CZE

J E233

2

a			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Cover sheet Electric wiring diagram	J E233					
			Desig.	Perktold	Sportareal Ceska Lipa			Project	Suffix				
			Print	11.10.07				J E233					
Modific.	Date	Name	Check		DIR: J:\EPLAN4\PLANLAGEN\EXXX\E2XX\JE233.P	<i>EPLAN 5</i>		Wiring diagram	Group	+ U	Page 1		

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Version	Date:	Release: Name	Modifications: (Groups)	Comment:					
-	23-08-2007	Perktold Michael		before manufacturing					
a	11.10.2007	Frischmann Thomas	+A1, +DF	after test run					
				</					

# Over view

Parameters for the operation  
of GE Jenbacher Engines  
acc. TI.Nr.: 1100-0110

Modifications of Design  
reserved.


All Cables between the  
Switchboards and the Engine  
have to be in flexible mode.

Protection against electric shock hazard  
( Grounding, Potential Compensation )  
has to be provided by the Customer at  
Installation according to local Standards !  
At states of Delivery the Installation is  
prepared for Protection Connection to  
Zero Potential to and Current  
Overload Protection in TN-Network  
to IEC 60439 .



The Numbers in the circles are in  
Relation with the Numbers in the  
Interface-List J E233 4410 00

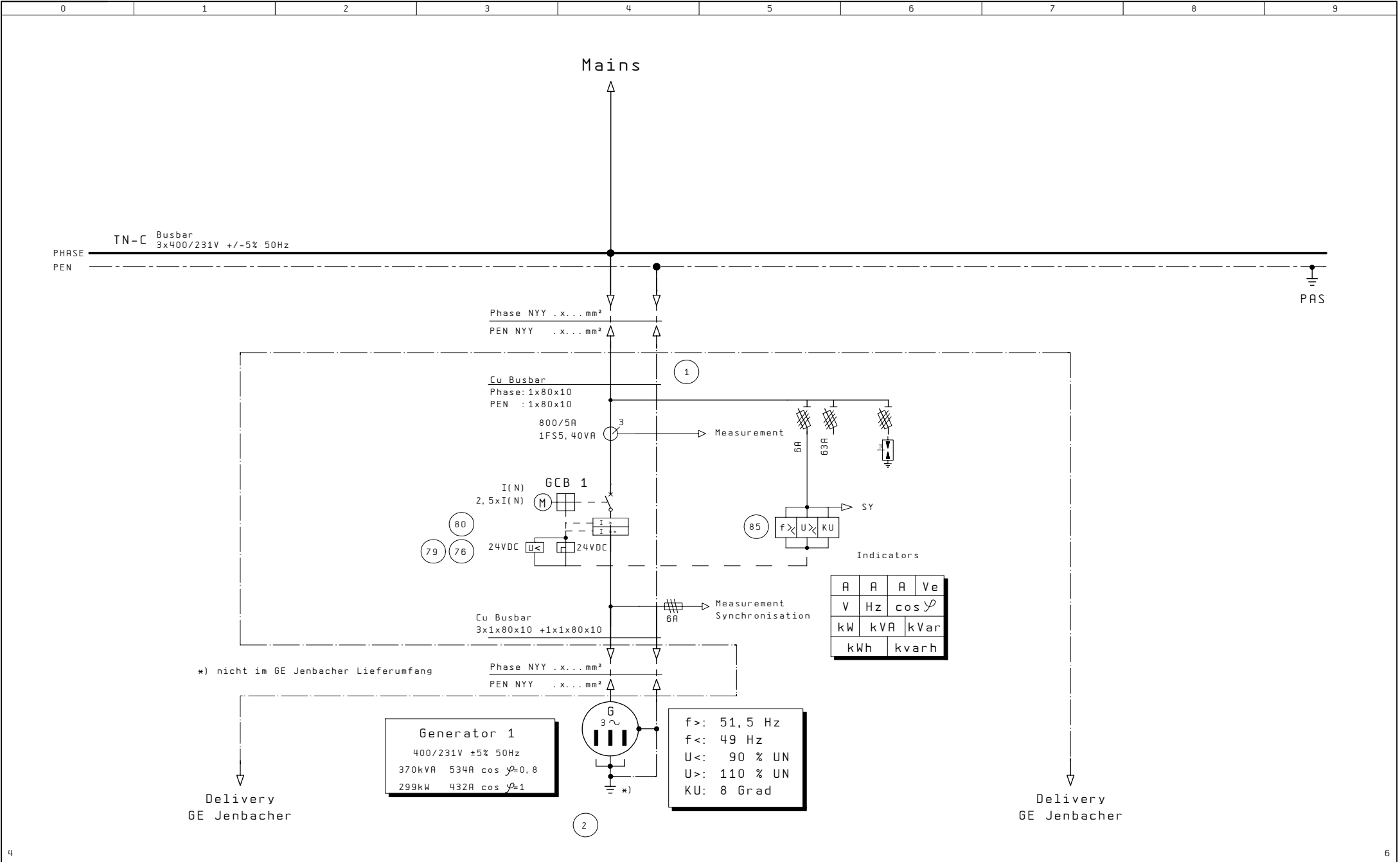
This Wiring Diagram is designed with  
a CAE-System.  
Modifications will be occupied by  
GE Jenbacher

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Over view	J E233			
			Desig.	Perktold					Project	Suffix	
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Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	EPLAN 5		Wiring diagram	Page		

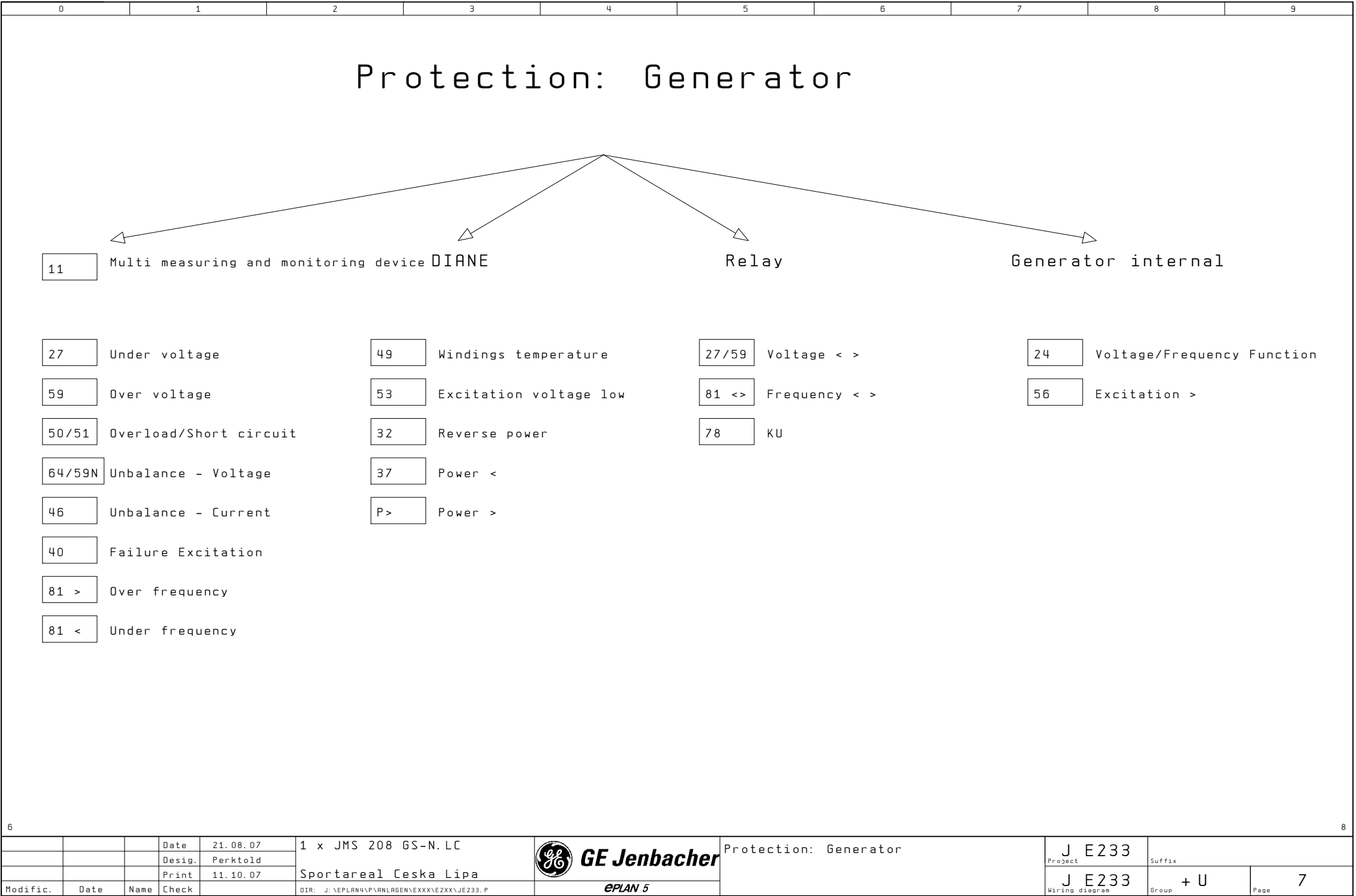
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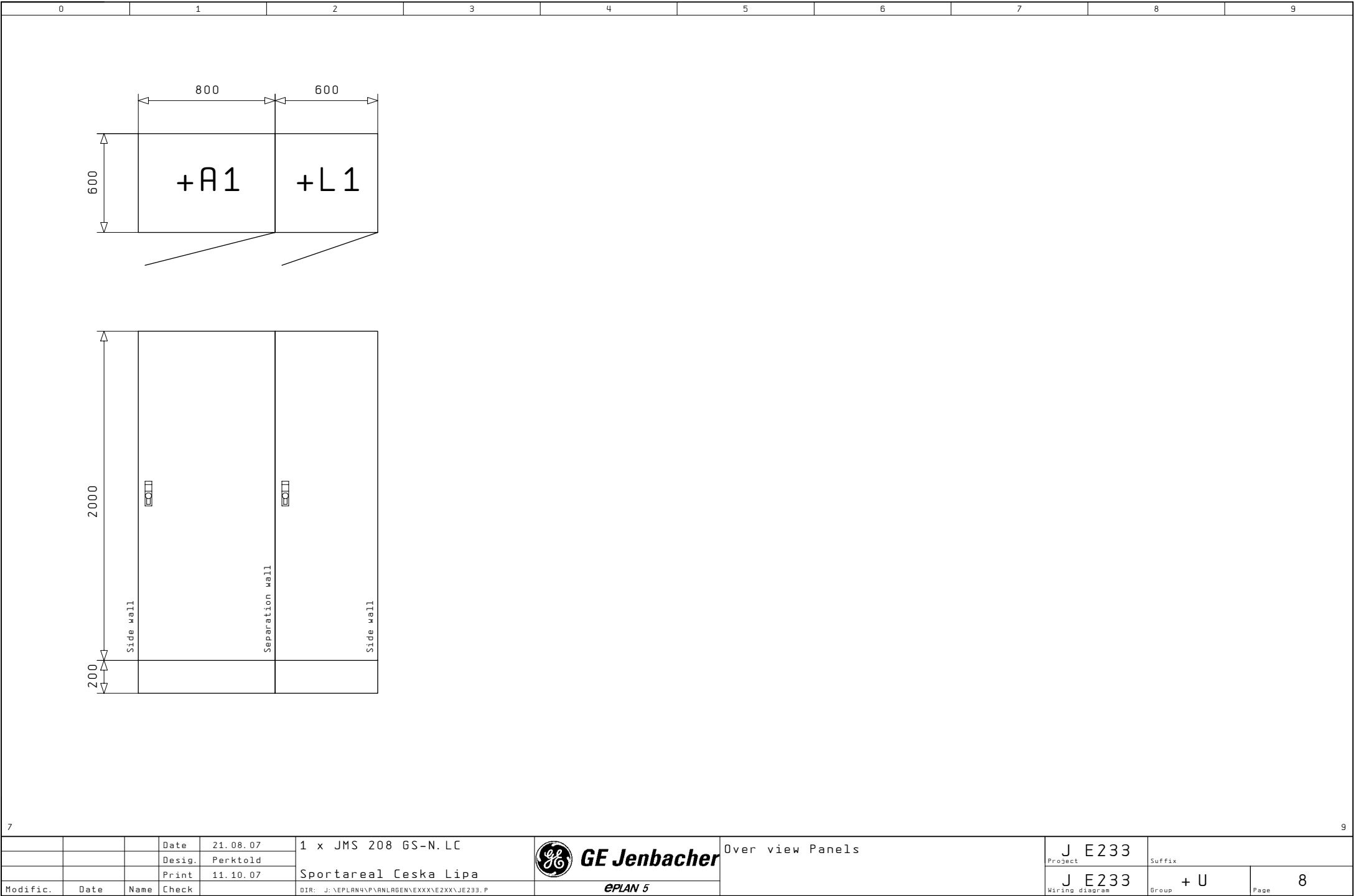
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+U/4	Diagram index		+U/19	Over view cables	
+U/5	E-Diagram		+U/20	Over view cables	
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+U/11	Over view Software				
+U/12	Spare parts				
+U/13	Spare parts				
+U/14	Spare parts				
+U/15	Requirements for Cabling				

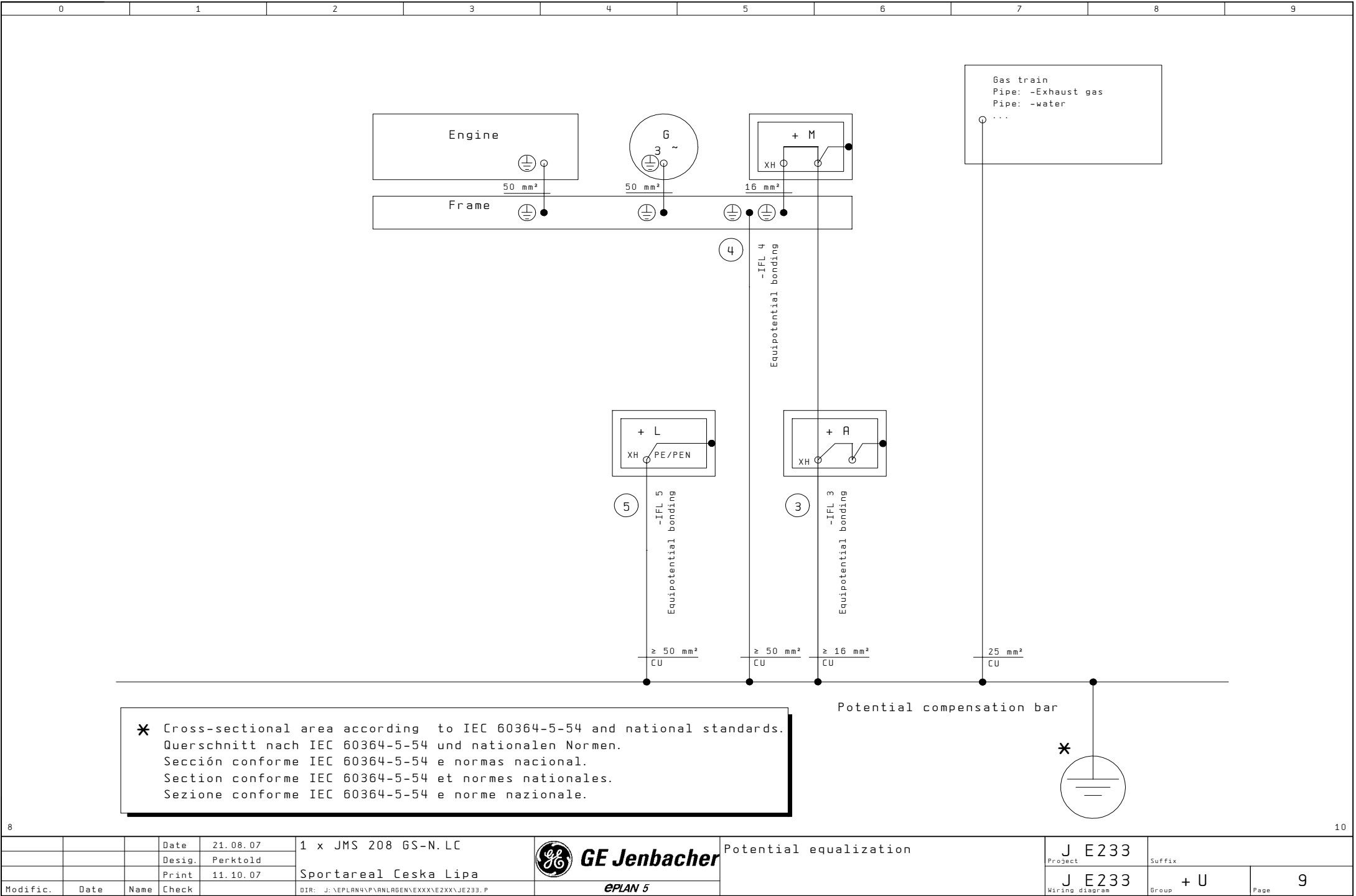


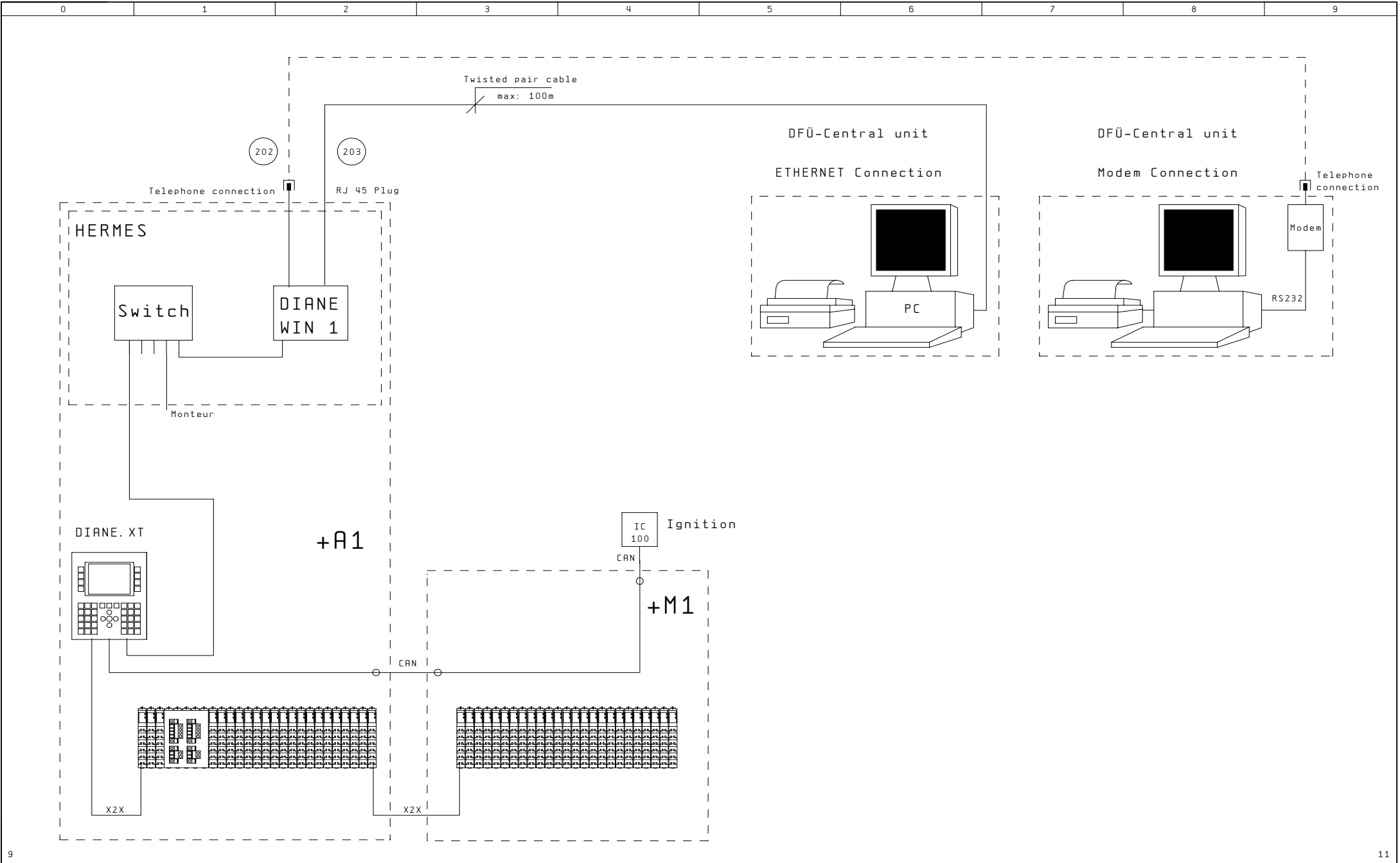
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Over view groups					Location				
+U Over view					+E1 Gas engine 1				
+B Part reference list					+P1 Periphery 1				
+G1 Generator 1									
+M1 Module interface cubicle 1									
+A1 Module control panel 1									
+L1 Power panel 1									
+DF HERMES									











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Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P	<b>EPLAN 5</b>	Wiring diagram	Group		Page	

Over view Software

DIA.NE WIN:  
Serverfunctions

File:

E233

Module control

RPS V2.2x

DIA.NE WIN - DEFAULT V2.2.x

Generate application(s)

J- Number:

E233

Server:

1 ▾

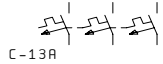
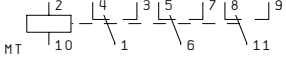


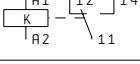

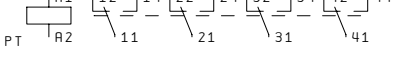



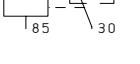





Number of engines

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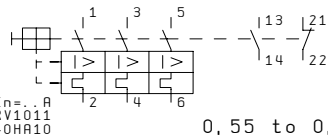
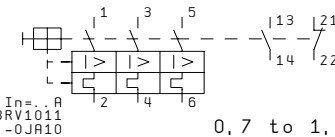
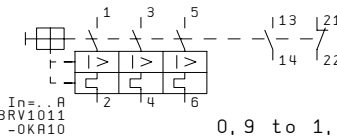
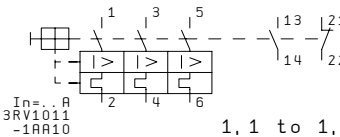
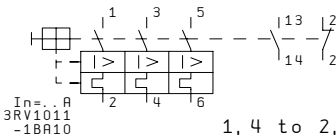
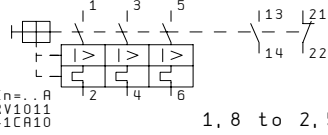
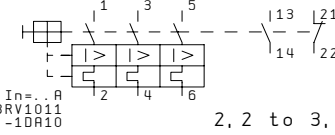
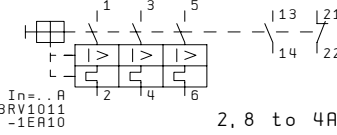
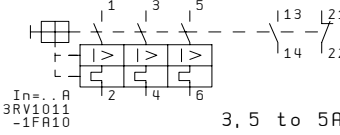
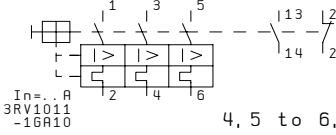
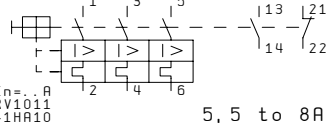
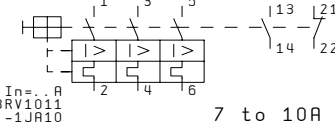
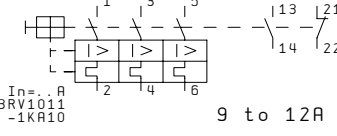
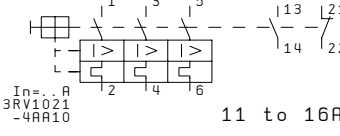
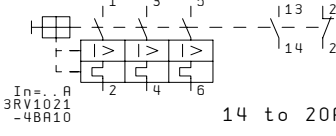
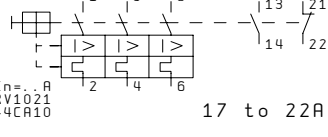
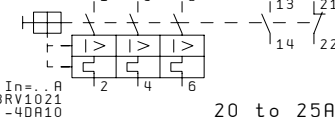
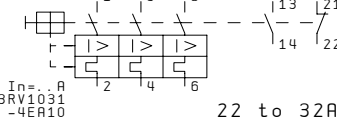
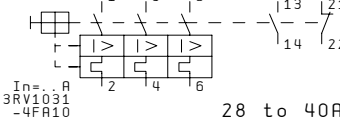
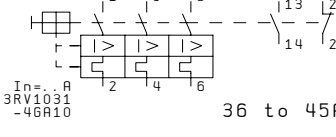
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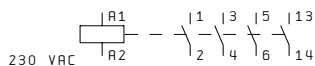
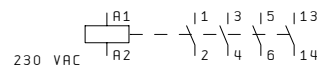
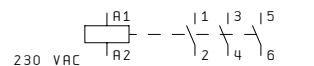
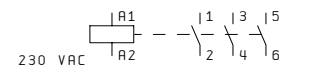
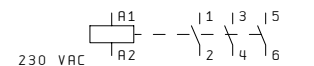
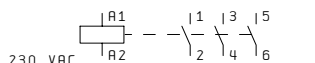
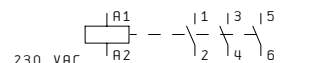
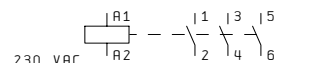
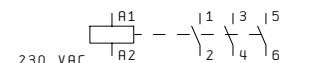
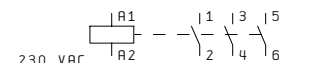
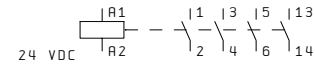
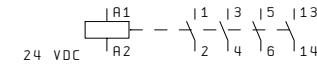
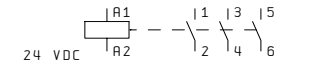
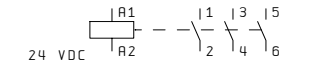
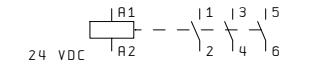
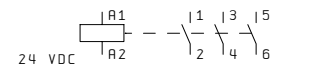
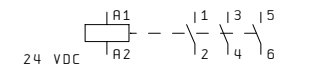
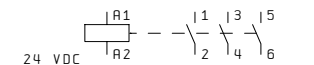
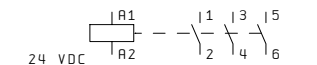
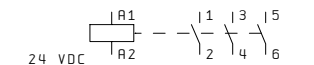
DIANE WIN

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Siemens	5SY4 316-7	454950	 C-16A		YMR 78700	116897	Base		
Siemens	5SY4 320-7	454951	 C-20A	Schrack	RY 612024	215392			
Siemens	5SY4 325-7	454952	 C-25A	Schrack	PT 580024	328577			
Siemens	5SY4 332-7	454953	 C-32A		YPT 78 704	332844	Base		
Siemens	5SY4 106-7	454941	 C-6A		YMLRD024	332847	LED		
Siemens	5SY4 113-7	454942	 C-13A	NAIS	CB1-D-24V	450901			
Siemens	5SY4 116-7	454943	 C-16A		3 334 485 008	175779	Base		
Siemens	5SY4 120-7	454944	 C-20A						
Siemens	5SY4 125-7	454945	 C-25A						
Siemens	5SY4 132-7	454946	 C-32A						
Siemens	5SY4 150-7	454947	 C-50A						

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Spare parts	J E233				
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								Wiring diagram				

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<div><p>In=...A 3RV1011 -0RA10</p><p>0,55 to 0,8A</p></div>	<div><p>In=...A 3RV1011 -0JA10</p><p>0,7 to 1,0A</p></div>	<div><p>In=...A 3RV1011 -0KA10</p><p>0,9 to 1,25A</p></div>	<div><p>In=...A 3RV1011 -1RA10</p><p>1,1 to 1,6A</p></div>	<div><p>In=...A 3RV1011 -1BA10</p><p>1,4 to 2,0A</p></div>					
Manufacturer	Siemens	Manufacturer	Siemens	Manufacturer	Siemens	Manufacturer	Siemens	Manufacturer	Siemens
Spare part Number:	374541	Spare part Number:	374542	Spare part Number:	374543	Spare part Number:	374544	Spare part Number:	374547
<div><p>In=...A 3RV1011 -1CA10</p><p>1,8 to 2,5A</p></div>	<div><p>In=...A 3RV1011 -1DA10</p><p>2,2 to 3,2A</p></div>	<div><p>In=...A 3RV1011 -1EA10</p><p>2,8 to 4A</p></div>	<div><p>In=...A 3RV1011 -1FA10</p><p>3,5 to 5A</p></div>	<div><p>In=...A 3RV1011 -1GA10</p><p>4,5 to 6,3A</p></div>					
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Spare part Number:	374556	Spare part Number:	374557	Spare part Number:	374558	Spare part Number:	374559	Spare part Number:	374560
<div><p>In=...A 3RV1021 -4CA10</p><p>17 to 22A</p></div>	<div><p>In=...A 3RV1021 -4DA10</p><p>20 to 25A</p></div>	<div><p>In=...A 3RV1031 -4EA10</p><p>22 to 32A</p></div>	<div><p>In=...A 3RV1031 -4FA10</p><p>28 to 40A</p></div>	<div><p>In=...A 3RV1031 -4GA10</p><p>36 to 45A</p></div>					
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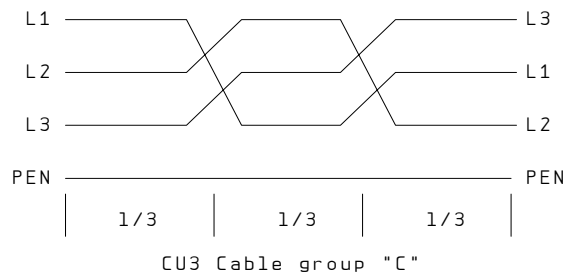
		Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Spare parts	J E233	<div>Suffix</div>	
		Desig.	Perktold	Sportareal Ceska Lipa			J E233		
		Print	11.10.07				Wiring diagram	Group	+ U
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<div><p>230 VAC 3RT1016 -2AP01 for 4kW</p></div>		<div><p>230 VAC 3RT1017 -2AP01 for 5.5kW</p></div>		<div><p>230 VAC 3RT1025 -1AP00 for 7.5kW</p></div>		<div><p>230 VAC 3RT1026 -1AP00 for 11kW</p></div>		<div><p>230 VAC 3RT1034 -1AP00 for 15kW</p></div>			
Manufacturer		Siemens		Manufacturer		Siemens		Manufacturer		Siemens	
Spare part Number:		374503		Spare part Number:		374504		Spare part Number:		374505	
<div><p>230 VAC 3RT1035 -1AP00 for 18.5kW</p></div>		<div><p>230 VAC 3RT1036 -1AP00 for 22kW</p></div>		<div><p>230 VAC 3RT1044 -1AP00 for 30kW</p></div>		<div><p>230 VAC 3RT1045 -1AP00 for 37kW</p></div>		<div><p>230 VAC 3RT1046 -1AP00 for 45kW</p></div>			
Manufacturer		Siemens		Manufacturer		Siemens		Manufacturer		Siemens	
Spare part Number:		374510		Spare part Number:		374512		Spare part Number:		374519	
<div><p>24 VDC 3RT1016 -2BB41 for 4kW</p></div>		<div><p>24 VDC 3RT1017 -2BB41 for 5.5kW</p></div>		<div><p>24 VDC 3RT1025 -1BB40 for 7.5kW</p></div>		<div><p>24 VDC 3RT1026 -1BB40 for 11kW</p></div>		<div><p>24 VDC 3RT1034 -1BB40 for 15kW</p></div>			
Manufacturer		Siemens		Manufacturer		Siemens		Manufacturer		Siemens	
Spare part Number:		374524		Spare part Number:		374525		Spare part Number:		374527	
<div><p>24 VDC 3RT1035 -1BB40 for 18.5kW</p></div>		<div><p>24 VDC 3RT1036 -1BB40 for 22kW</p></div>		<div><p>24 VDC 3RT1044 -1BB40 for 30kW</p></div>		<div><p>24 VDC 3RT1045 -1BB40 for 37kW</p></div>		<div><p>24 VDC 3RT1046 -1BB40 for 45kW</p></div>			
Manufacturer		Siemens		Manufacturer		Siemens		Manufacturer		Siemens	
Spare part Number:		374535		Spare part Number:		374536		Spare part Number:		374538	

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Spare parts	J E233	Project Suffix			
			Desig.	Perktold	Sportareal Ceska Lipa			J E233				
			Print	11.10.07								
Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	EPLAN 5		Wiring diagram	Group	+ U	Page	14

# Requirements for Cabling

ACCORDING TA.NO.: 1000-0505



Cable groups:

TI-No.: 1000-0505

CU1 Cable group A : Shielded analog cables

Cables unshielded AC/DC  $\leq 60$  V

Cables shielded AC/DC  $\leq 230$  V

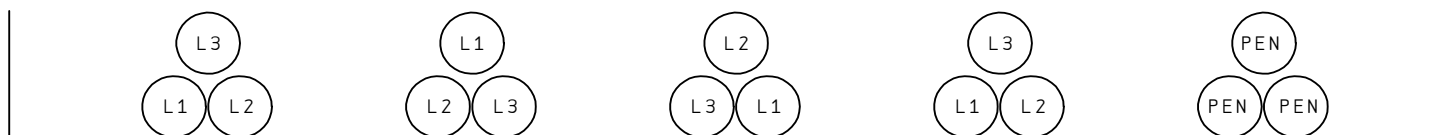
CU2 Cable group B : Cables unshielded AC/DC  $> 60$  V,  $\leq 230$  V

CU3 Cable group C : Cables unshielded AC/DC  $> 230$  V,  $\leq 1$  kV

Cables shielded AC  $> 230$  V,  $\leq 1$  kV

**Bus cables must be laid separately !**

D=Cable diameter



Metallic cable tray



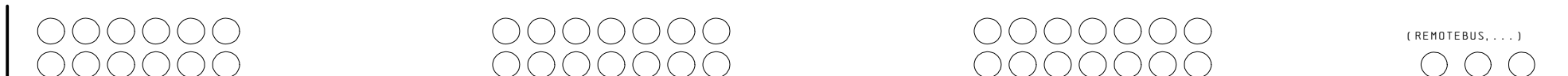
Cable:	Diameter:
YYY 1x 70mm <sup>2</sup>	17mm
YYY 1x 95mm <sup>2</sup>	19mm
YYY 1x120mm <sup>2</sup>	20mm
YYY 1x150mm <sup>2</sup>	22mm
YYY 1x185mm <sup>2</sup>	25mm
YYY 1x240mm <sup>2</sup>	27mm

Cable group CU3-"C"

Cable group CU2-"B"

Cable group CU1-"A"

Bus cable



Metallic cable tray

>100mm

>100mm


>100mm

# Cable GE Jenbacher

Cable GE Jenbacher Electric wiring diagram	VDE / IEC			USA	Ital. CEI 20-22	Spain
YSLY-OZ	NYSLYö-OZ VDE 250	H05VV5-F. X. .	SiHF Silikon	THWN		RV-K 0,6/1KV
YSLY-JZ	NYSLYö-JZ VDE 250	H05VV5-F. G. .	SiHF Silikon	THWN		RV-K 0,6/1KV incl. PE
YSLCY-OZ	NYSLCYö-OZ VDE 250	H05VVC4V5-K. X. .		1PR16S		RV-K 0,6/1KV apantallado
YSLCY-JZ	NYSLCYö-JZ VDE 250	H05VVC4V5-K. G. .		1PR16S		RV-K 0,6/1KV incl PE y apantallado
NY Y	NY Y 1x185 rm 0,6/1KV-VDE 271	NY Y 1x185 rm 0,6/1KV -VDE 271		THWN up to 600V	NIVVK	RV-K 0,6/1KV
H07RNF		H07RNF VDE 0282			H07RNF	H07RNF
H07V-K		H07V-K VDE 0281			H07V-K	H07V-K
NICRNI-gesch. für Thermoelemente	90 N ... DIN IEC 584			ANSI MC 96.1 for thermocouples	90 N ... DIN IEC 584	90 N ... DIN IEC 584
NSGAFÖU-3kV	NSGAFÖU-3kV			MV-90 >5KV		
NY Y 0,6/1KV					Tutti i cavi con fili fini cavi di potenza almeno di fino multipolare	Todos los cables con hilos finos cables de potencia por lo menos de hilos multiples
Cable for Middle voltage generator (>1kV)		Cable according Generator-Manufacturer f.e. SIEMENS PROTOLON-NTMCGCWÖU see Technical specification of the control E233 4440 00 Part 4				

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			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Cable with DIANE	J E233					
			Desig.	Perktold				Project	Suffix				
			Print	11.10.07				Sportareal Ceska Lipa					
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# Over view cables

+a-W. b xxx. c ddd-e f

Cross section

Protective wire

OZ: without Protective wire

JZ: with Protective wire

Type

Cable Group

A: Cable AC/DC ≤60V

B: Cable AC/DC ≥60V, ≤250V

C: Cable AC >250V, ≤1kV

Cable Number

Cable Function

M: Engine installation

E: External

I: internal

SSL: Interface

Cable

Group

+R: Module control panel

Electric wiring diagram

+M: Module interface cubicle

+SY: Synchronisation panel

## example

example: Cable internal

+M-W. I100. A YSLCY-OZ 2x1,5mm<sup>2</sup>

example: Engine installation

+M-W. M100. A YSLC-JZ 3x1,5mm<sup>2</sup>

example: Cable External

+M-W. E100. A YSLCY-JZ 5x2,5mm<sup>2</sup>

example: Interfaces

+M-W. SSL100

		Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Over view cables	J E233	Suffix	+ U	17
		Desig.	Perktold	Sportareal Ceska Lipa			J E233			
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P			Wiring diagram	Group		

0	1	2	3	4	5	6	7	8	9
Over view cables									
Cable	Type	Wire	mm²	from	to	Comment	Page		
+G1-W. E1. C	NYY	2	185	+G1-X	+L1-7W1	Power connection	+G1/4. 2		
+G1-W. E2. C	NYY	2	185	+G1-X	+L1-7W3	Power connection	+G1/4. 2		
+G1-W. E3. C	NYY	2	185	+G1-X	+L1-7W5	Power connection	+G1/4. 2		
+G1-W. E4. C	NYY	1	185	+G1-X	+L1-7W7	Power connection	+G1/4. 1		
+G1-W. SSL2		1	-	+G1-X	+P1-SSL2	-IFL 2 Service grounding	+G1/4. 1		
+G1-W. SSL4	H07V-K	1/PE	50	+P1-SSL4	+G1-4G1	-IFL 4 Potential equalization	+G1/4. 0		
+G1-W. M190. A	YSLCY-OZ	3+SS	1. 5	+G1-X	+M1-XS	Windings temperature	+G1/4. 7		
+G1-W. M196. B	YSLY-OZ	2	1. 5	+G1-X	+M1-XE	Cos-Phi-Control on	+G1/4. 4		
+G1-W. M197. B	YSLY-OZ	2	1. 5	+G1-X	+M1-XE	Voltage matching	+G1/4. 4		
+G1-W. M198. A	YSLCY-OZ	2+SS	1. 5	+G1-X	+M1-33B1	Excitation voltage	+G1/4. 6		
+G1-W. M199. B	YSLY-OZ	2	1. 5	+G1-X	+M1-XE	Deexcitation	+G1/4. 5		
+G1-W. M200. B	YSLY-OZ	2	1. 5	+G1-X	+M1-XH	Anti condensation heater	+G1/4. 9		
+M1-W. E5. A	NSGAFÖU	1	50	+E1-10M3	+P1-10G1	Battery +	+M1/10. 1		
+M1-W. E6. A	NSGAFÖU	1	50	+E1-10W1	+P1-10G2	Battery -	+M1/10. 3		
+M1-W. E8. A	YSLY-JZ	5/PE	4	+M1-X	+R1-X	Module control panel	+M1/6. 1		
+M1-W. E10. A	X2X	4+SS	0. 34	+M1-14A1	+R1-24A2	Delivery GE Jenbacher	+M1/20. 1		
+M1-W. E12. B	YSLY-OZ	2	1. 5	+M1-XE	+R1-XE	Voltage matching	+M1/46. 3		
+M1-W. E13. C	H07V-K	1/PE	16	+M1-XH	+R1-XH	Equipotential bonding Module interface	+M1/8. 1		
+M1-W. E20. A	YSLY-OZ	2	1. 5	+M1-X	+P1-35S1	Gas pressure low Gas train 1	+M1/35. 0		
+M1-W. E25. A	YSLY-JZ	4/PE	1. 5	+M1-X	+P1-42F1	Gassafety device 1	+M1/42. 0		
+M1-W. E30. A	YSLY-JZ	4/PE	2. 5	+M1-X	+P1-43Y1	Gas valve 1 Gas train 1	+M1/43. 1		
+M1-W. SSL52		3	-	+M1-XS	+P1-47Y2	-IFL 52 Water return-Valve	+M1/47. 1		
+M1-W. SSL53		3	-	+M1-XS	+E1-39B17	-IFL 53 Heating water return temperature	+M1/39. 1		
+M1-W. I104. A	YSLCY-OZ	3+SS	0. 75	+M1-XS	+M1-44A1	Actuator	+M1/44. 2		
+M1-W. M103. C	YSLY-JZ	5/PE	1. 5	+M1-XH	+E1-9E1	Heating elements	+M1/9. 0		
+M1-W. M105. C	YSLY-JZ	4/PE	1. 5	+M1-XH	+E1-9M2	Engine jacket water pump	+M1/9. 4		
+M1-W. M109. C	YSLY-JZ	4/PE	1. 5	+M1-XH	+E1-7M1	Cool down oilpump	+M1/7. 7		
+M1-W. M114. A	YSLY-OZ	2	1. 5	+M1-X	+E1-34S2	Oil differential pressure high	+M1/34. 4		
+M1-W. M117. A	YSLCY-OZ	3+SS	1. 5	+M1-XS	+E1-32B11	Supercharge pressure	+M1/32. 3		
+M1-W. M118. A	PT100	3+SS	0. 25	+M1-XS	+E1-33B13	Fuel mixture temperature	+M1/33. 2		
+M1-W. M119. A	PT100	3+SS	0. 25	+M1-XS	+E1-33B14	Oil temperature	+M1/33. 3		
+M1-W. M120. A	PT100	3+SS	0. 25	+M1-XS	+E1-33B15	Engine jacket water temperature	+M1/33. 4		
+M1-W. M121. A	YSLCY-OZ	3+SS	0. 75	+M1-XS	+E1-32B9	Oil pressure	+M1/32. 0		
+M1-W. M122. A	YSLCY-OZ	3+SS	0. 75	+M1-XS	+E1-32B10	Jacket water pressure	+M1/32. 1		
+M1-W. M130. A	YSLY-OZ	2	2. 5	+M1-X	+E1-49G1	Ignition	+M1/49. 2		

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			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Over view cables	J E233	Suffix				
			Desig.	Perktold	Sportareal Ceska Lipa							Project	
			Print	11.10.07									Wiring diagram
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P		EPLAN 5							

0	1	2	3	4	5	6	7	8	9
Over view cables									
Cable	Type	Wire	mm²	from	to	Comment	Page		
+M1-W. M131. A	YSLY-OZ	2	1. 5	+M1-X	+E1-49G1	Ignition	+M1/49. 3		
+M1-W. M136. A	YSLCY-OZ	2+SS	1. 5	+M1-XS	+E1-49G1	Speed	+M1/45. 2		
+M1-W. M138. A	YSLY-JZ	5/PE	1. 5	+M1-X	+E1-34S1	Oil level: Gas engine	+M1/34. 3		
+M1-W. M139. A	YSLY-OZ	2	1. 5	+M1-X	+E1-34Y1	Oil valve	+M1/34. 0		
+M1-W. M140. A	NICRNIGE	2+SS	0. 5	+P1-22B1	+M1-14A3	Exhaust gas temperature after Turbo	+M1/22. 5		
+M1-W. M142. A	NICRNIGE	2+SS	0. 5	+P1-22B2	+M1-14A3	after Exhaust gas heat exchanger	+M1/22. 7		
+M1-W. M148. A	YSLCY-JZ	3/PE+SS	1. 5	+M1-XS	+E1-32M4	Mixer position	+M1/32. 4		
+M1-W. M149. A	YSLY-JZ	5/PE	0. 75	+M1-X	+E1-32M4	Air-gas mixer P1	+M1/37. 2		
+M1-W. M150. A	NICRNIGE	2+SS	0. 5	+E1-21B1	+M1-14A2	Cylinder:1	+M1/21. 1		
+M1-W. M151. A	NICRNIGE	2+SS	0. 5	+E1-21B2	+M1-14A2	2	+M1/21. 2		
+M1-W. M152. A	NICRNIGE	2+SS	0. 5	+E1-21B3	+M1-14A2	3	+M1/21. 4		
+M1-W. M153. A	NICRNIGE	2+SS	0. 5	+E1-21B4	+M1-14A2	4	+M1/21. 5		
+M1-W. M154. A	NICRNIGE	2+SS	0. 5	+E1-21B5	+M1-14A2	5	+M1/21. 7		
+M1-W. M155. A	NICRNIGE	2+SS	0. 5	+E1-21B6	+M1-14A2	6	+M1/21. 8		
+M1-W. M156. A	NICRNIGE	2+SS	0. 5	+E1-22B7	+M1-14A3	Cylinder:7	+M1/22. 1		
+M1-W. M157. A	NICRNIGE	2+SS	0. 5	+E1-22B8	+M1-14A3	8	+M1/22. 2		
+M1-W. M175. A	LIY-CY	2	0. 25	+M1-XS	+E1-32B12	Knocking detector 1	+M1/32. 5		
+M1-W. M179. A	Kabelbaum c11	2+SS	-	+M1-XS	+E1-45B19	Pick up	+M1/45. 1		
+M1-W. M188. A	YSLCY-OZ	2+SS	1. 5	+M1-X	+E1-44B18	Actuator	+M1/44. 1		
+M1-W. M189. A	YSLCY-OZ	3+SS	0. 75	+M1-XS	+E1-44B18	Actuator	+M1/44. 2		
+M1-W. M193. A	PT100	3+SS	0. 25	+M1-XS	+E1-33B16	Intake air temperature	+M1/33. 5		
+M1-W. M216. A	Kabelbaum	3	-	+E1-49B20	+E1-49G1	Camshaft	+M1/49. 8		
+M1-W. M223. A	Kabelbaum	3	-	+M1-XS	+E1-49G1	CAN-BUS	+M1/48. 8		
+M1-W. M261. A	NSGAFÖU	1	50	+E1-10M3	+E1-10W1	Battery -	+M1/10. 2		
+M1-W. M266. A	HO7V-K_ws	1	6	+M1-X	+E1-10M3	Starter motor	+M1/10. 1		
+M1-W. M267. A	NSGAFÖU	1	10	+M1-X	+E1-10M3	Charge	+M1/10. 0		
+M1-W. M268. A	HO7V-K_br	1	10	+M1-X	+E1-10M3	Charge	+M1/10. 5		
+A1-W. E1. C	NY Y	5	16	+A1-XH1	+L1-XH	Supply Auxiliaries 3x400/230V, 50Hz, 63A	+A1/13. 0		
+A1-W. E2. C	YSLY-JZ	5/PE	1. 5	+A1-XE	+L1-XH	Busbar voltage	+A1/8. 0		
+A1-W. E4. A	YSLY-JZ	7/PE	2. 5	+A1-XE	+L1-XH	Generator current	+A1/10. 2		
+A1-W. E5. C	YSLY-JZ	5/PE	1. 5	+A1-XE	+L1-XH	Generator voltage	+A1/10. 6		
+A1-W. I2. A	CAN-BUSKABEL	4+SS	-	+A1-XS	+A1-37X1	CAN-Bus	+A1/38. 2		
+A1-W. I4. A	X2X	4+SS	0. 34	+A1-20A1	+A1-37X2	violet	+A1/37. 8		
+A1-W. SSL3		1/PE	-	+A1-XH	+A1-SSL3	-IFL 3 Equipotential bonding	+A1/12. 1		
+A1-W. E12. C	YSLY-JZ	5/PE	2. 5	+M1-XH	+A1-XH	Supply Module interface	+A1/15. 1		

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Over view cables	J E233	Suffix		19	
			Desig.	Perktold	Sportareal Ceska Lipa							J E233
			Print	11.10.07					Wiring diagram			
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\PLAN\LAGEN\EXXX\JE233.P		EPLAN 5						

0	1	2	3	4	5	6	7	8	9
Over view cables									
Cable	Type	Wire	mm²	from	to	Comment	Page		
+A1-W. E33. A	CAN-BUSKABEL	4+SS	-	+M1-XS	+A1-XS	Delivery GE Jenbacher	+A1/38.1		
+A1-W. E81. A	YSLY-JZ	5/PE	2.5	+M1-X	+A1-X	Emergency stop +M1	+A1/43.1		
+A1-W. E91. A	YSLY-JZ	18/PE	1.5	+A1-X	+L1-X	Generator circuit breaker closed	+A1/40.1		
+A1-W. I14. B	YSLY-JZ	3/PE	1.5			Panel Lamp			
		3/PE	1.5	+A1-14E1	+A1-14F3	Panel Lamp	+A1/14.2		
		3/PE	1.5	+A1-14E1	+A1-14F1	Panel Lamp	+A1/14.2		
		3/PE	1.5	+A1-14E1	+A1-XE	Panel Lamp	+A1/14.2		
+A1-W. I15. B	Kabelbaum	2	-	+A1-14E1	+A1-14S1	Panel Lamp	+A1/14.2		
+A1-W. SSL14		3	-	+A1-X	+P1-SSL14	-IFL 14 ready for Automatic demand	+A1/46.0		
+A1-W. SSL15		2	-	+A1-X	+P1-47S8	-IFL 15 Demand	+A1/47.1		
+A1-W. SSL17		3	-	+A1-X	+P1-SSL17	-IFL 17 Module demanded	+A1/46.1		
+A1-W. SSL19		2	-	+A1-X	+P1-47S9	-IFL 19 Release Auxiliaries	+A1/47.2		
+A1-W. SSL20		3	-	+A1-X	+P1-SSL20	-IFL 20 Operation / Engine runs	+A1/46.1		
+A1-W. SSL21		3	-	+A1-X	+P1-SSL21	-IFL 21 General alarm shut down	+A1/46.2		
+A1-W. SSL22		3	-	+A1-X	+P1-SSL22	-IFL 22 General alarm warn	+A1/46.3		
+A1-W. SSL23		2	-	+A1-XE	+P1-SSL23	-IFL 23 Emergency stop	+A1/45.1		
+A1-W. SSL28		2	-	+A1-XS	+P1-SSL28	-IFL 28 External Set point power	+A1/34.0		
+A1-W. SSL29		2	-	+A1-XS	+P1-SSL29	-IFL 29 Generator active power	+A1/35.1		
+A1-W. SSL30		3	-	+A1-X	+P1-SSL30	-IFL 30 Generator Energy	+A1/46.4		
+A1-W. SSL39		2	-	+A1-X	+P1-43S4	-IFL 39 Emergency stop External	+A1/43.1		
+A1-W. SSL41		2	-	+A1-X	+P1-47S12	-IFL 41 Fire alarm	+A1/47.5		
+A1-W. SSL46		2	-	+A1-X	+P1-47S13	-IFL 46 Failure Transformer	+A1/47.6		
+A1-W. SSL76		2	-	+A1-XE	+P1-SSL76	-IFL 76 Generator circuit breaker opening failure	+A1/45.6		
+A1-W. SSL80		2	-	+A1-XE	+P1-SSL80	-IFL 80 Generator circuit breaker closed	+A1/45.4		
+A1-W. SSL85		2	-	+A1-XE	+P1-SSL85	-IFL 85 Mains failure	+A1/45.5		
+A1-W. E152. A	YSLY-OZ	2	2.5	+A1-X	+L1-X	Generator circuit breaker	+A1/7.7		
+A1-W. SSL18.1		2	-	+A1-XE	+P1-SSL18	-IFL 18 Demand Auxiliaries	+A1/45.0		
+A1-W. SSL18.2		2	-	+A1-XE	+P1-SSL18	-IFL 18 Demand Auxiliaries	+A1/45.1		
+A1-W. SSL40.1		2	-	+A1-X	+P1-47S10	-IFL 40.1 Gas prealarm	+A1/47.3		
+A1-W. SSL40.2		2	-	+A1-X	+P1-47S11	-IFL 40.2 Gas alarm	+A1/47.4		
+A1-W. SSL50.1		2	-	+A1-X	+P1-44S5	-IFL 50.1 Hot water flow existing	+A1/44.1		
+A1-W. SSL50.2		3	-	+A1-X	+P1-44S6	-IFL 50.2 Hot water pressure high	+A1/44.2		
+A1-W. SSL50.3		3	-	+A1-X	+P1-44S7	-IFL 50.3 Hot water temperature high	+A1/44.3		
+A1-W. SSL50.7		4/PE	-	+A1-XH	+P1-16M1	-IFL 50.7 Hot water pump	+A1/16.1		
+A1-W. SSL56.1		2	-	+A1-X	+P1-47S14	-IFL 56.1 Room temperature high	+A1/47.7		

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Over view cables	J E233	Suffix		+ U	20	
			Desig.	Perktold	Sportareal Ceska Lipa								J E233
			Print	11.10.07					Wiring diagram				Group
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P		EPLAN 5							


0	1	2	3	4	5	6	7	8	9
Over view cables									
Cable	Type	Wire	mm²	from	to	Comment	Page		
+A1-W. SSL57. 3	YSLY-JZ	2	-	+A1-X	+P1-17S2	-IFL 57.3 Freshoil low	+A1/17. 2		
+A1-W. SSL57. 4		2	-	+A1-X	+P1-17S3	-IFL 57.4 Waste oil high	+A1/17. 5		
+L1-W. I1. B		3/PE	1. 5			Panel fan			
		3/PE	1. 5	+L1-9M1	+L1-9S1	Panel fan	+L1/9. 1		
		3/PE	1. 5	+L1-9M1	+L1-XH	Panel fan	+L1/9. 1		
+L1-W. SSL1		5/PE	-			-IFL 1 Power connection			
		5	-	+P1-SSL1	+L1-7W2	-IFL 1 Power connection	+L1/7. 1		
		5	-	+P1-SSL1	+L1-7W4	-IFL 1 Power connection	+L1/7. 1		
		5	-	+P1-SSL1	+L1-7W6	-IFL 1 Power connection	+L1/7. 1		
		5/PE	-	+P1-SSL1	+L1-7W7	-IFL 1 Power connection	+L1/7. 5		
+L1-W. SSL5		5	-	+P1-SSL1	+L1-7W8	-IFL 1 Power connection	+L1/7. 5		
+DF-W. I4. A	Ethernet	1/PE	50	+P1-SSL5	+L1-7W7	-IFL 5 Equipotential bonding	+L1/7. 7		
+DF-W. I10. A	Ethernet	8+SS	-	+A1-37A1	+DF-4A1	Switch --> XT	+DF/4. 1		
+DF-W. I10. A		8+SS	-	+DF-3A1	+DF-4A1	DIANE XT	+DF/3. 3		
+DF-W. SSL202		1	-	+P1-SSL202	+DF-3A2	-IFL202 Telephone connection	+DF/3. 5		
+DF-W. SSL203		1	-	+P1-SSL203	+DF-3A1	-IFL203 -->DFÜ Central unit	+DF/3. 4		

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Over view cables	J E233		
			Desig.	Perktold	Sportareal Ceska Lipa			Project	Suffix	
			Print	11.10.07				J E233		
Modific.	Date	Name	Check		DIR: J:\NEPLAN\4\P\ANLAGEN\EXXX\JE233.P	<i>EPLAN 5</i>	Wiring diagram	Group	+ U	Page 21

Designation of the components:  
Electric wiring diagram - Technical schema

Die Nummern in der Bauteilzuordnung  
beziehen sich auf die Nummern in der  
Schnittstellenliste J E233  
und technischem Schema J E233 00 03

The numbers in the part reference list are in relation with the numbers in the Interface-list J E233 and the Technical schema J E233 00 03

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Part reference list	J E233		
			Desig.	Perktold	Sportareal Ceska Lipa			Project	Suffix	
			Print	11.10.07				Wiring diagram	Group	
Modific.	Date	Name	Check		DIR: J:\EPLAN4\N\NLAGEN\EXXX\EXXX\JE233.P	<i>EPLAN 5</i>		J E233	+ B	1
								Wiring diagram	Group	Page




0	1	2	3	4	5	6	7	8	9
IFL No.	Page	IFL No.	Page	IFL No.	Page	IFL No.	Page	IFL No.	Page
-SSL1	+L1/7. 1	-SSL203	+DF/3. 4						
-SSL2	+G1/4. 1								
-SSL3	+A1/12. 1								
-SSL4	+G1/4. 0								
-SSL5	+L1/7. 7								
-SSL14	+A1/46. 0								
-SSL15	+A1/47. 1								
-SSL17	+A1/46. 1								
-SSL18	+A1/45. 0								
-SSL19	+A1/47. 2								
-SSL20	+A1/46. 2								
-SSL21	+A1/46. 2								
-SSL22	+A1/46. 3								
-SSL23	+A1/45. 2								
-SSL28	+A1/34. 0								
-SSL29	+A1/35. 1								
-SSL30	+A1/46. 4								
-SSL39	+A1/43. 2								
-SSL40. 1	+A1/47. 3								
-SSL40. 2	+A1/47. 4								
-SSL41	+A1/47. 5								
-SSL46	+A1/47. 6								
-SSL50. 1	+A1/44. 1								
-SSL50. 2	+A1/44. 2								
-SSL50. 3	+A1/44. 3								
-SSL50. 7	+A1/16. 1								
-SSL52	+M1/47. 2								
-SSL53	+M1/39. 2								
-SSL56. 1	+A1/47. 7								
-SSL57. 3	+A1/17. 3								
-SSL57. 4	+A1/17. 6								
-SSL76	+A1/45. 6								
-SSL80	+A1/45. 4								
-SSL85	+A1/45. 5								
-SSL202	+DF/3. 5								



0	1	2	3	4	5	6	7	8	9
Abbreviation	Page	Number in el. wiring diagram	Denomination	Comment					
Actuator	+M1/44. 1	+E1-44B18	Actuator (Stellglied)	Gasdruckregelstrecke 1 Warmwasserkreis					
Battery	+M1/10. 2	+P1-10G2	Batterie						
Battery	+M1/10. 2	+P1-10G1	Batterie						
DK1	+M1/42. 1	+P1-42F1	Dichtekontrolle						
FS	+A1/44. 2	+P1-44S5	Durchflußschalter						
Generator	+G1/4. 1	+G1-4G2	Generator	Motorölstand im Altöltank Motorölstand im Frischöltank 1 Motorölstand in der Motorölwanne					
KD	+M1/32. 5	+E1-32B12	Klopfsensor						
LS2	+A1/17. 5	+P1-17S3	Niveauschalter						
LS3	+A1/17. 3	+P1-17S2	Niveauschalter						
LS5	+M1/34. 3	+E1-34S1	Niveauschalter						
NBE	+M1/11. 0	+M1-11G1	Batterieladegerät	Motorölnachkühlung Elektrische Motorkühlwasserpumpe					
NHW1	+M1/9. 0	+E1-9E1	Heizeinheit						
NMS	+M1/10. 1	+E1-10M3	Anlasser						
NP05	+M1/7. 7	+E1-7M1	Motorölpumpe						
NPW1	+M1/9. 4	+E1-9M2	Wasserpumpe						
NPW7	+A1/16. 1	+P1-16M1	Wasserpumpe	Warmwasserpumpe					
NUP5	+M1/35. 0	+P1-35S1	Drucküberwachung	Gasdruck min. (Gasdruckregelstrecke 1)					
NUP7	+M1/32. 3	+E1-32B11	Drucküberwachung	Ladedruck (Gemischdruck p2')					
NUP8	+M1/32. 2	+E1-32B10	Drucküberwachung	Motorkühlwasserdruck					
NUP9	+M1/32. 0	+E1-32B9	Drucküberwachung	Motoröldruck					
NUP11	+A1/44. 2	+P1-44S6	Drucküberwachung	Warmwasserkreis					
NUT1	+M1/21. 1	+E1-21B1	Temperaturüberwachung	Abgasaustritt Zylinderkopf					
NUT1	+M1/21. 2	+E1-21B2	Temperaturüberwachung	Abgasaustritt Zylinderkopf					
NUT1	+M1/21. 4	+E1-21B3	Temperaturüberwachung	Abgasaustritt Zylinderkopf					
NUT1	+M1/21. 5	+E1-21B4	Temperaturüberwachung	Abgasaustritt Zylinderkopf					
NUT1	+M1/21. 7	+E1-21B5	Temperaturüberwachung	Abgasaustritt Zylinderkopf					
NUT1	+M1/21. 8	+E1-21B6	Temperaturüberwachung	Abgasaustritt Zylinderkopf					
NUT1	+M1/22. 1	+E1-22B7	Temperaturüberwachung	Abgasaustritt Zylinderkopf					
NUT1	+M1/22. 2	+E1-22B8	Temperaturüberwachung	Abgasaustritt Zylinderkopf					
NUT2	+M1/33. 2	+E1-33B13	Temperaturüberwachung	Gemischtemperatur t2'					
NUT4	+G1/4. 7	+G1-4R1	Temperaturüberwachung	Generatorwicklungstemperatur					
NUT4	+G1/4. 8	+G1-4R2	Temperaturüberwachung	Generatorwicklungstemperatur					
NUT6	+M1/33. 4	+E1-33B15	Temperaturüberwachung	Motorkühlwassertemperatur					
NUT7	+M1/33. 3	+E1-33B14	Temperaturüberwachung	Motoröltemperatur					
NUT8	+M1/22. 7	+P1-22B2	Temperaturüberwachung	nach Wärmetauscher (Abgas/Wasser)					

0	1	2	3	4	5	6	7	8	9
Abbrevation	Page	Number in el. wiring diagram	Denomination	Comment					
NUT12	+M1/39. 1	+E1-39B17	Temperaturüberwachung	Rücklauftemperatur (Warmwasserkreis)					
NUT13	+M1/22. 5	+P1-22B1	Temperaturüberwachung	nach Abgasturbolader					
NUT16	+A1/44. 3	+P1-44S7	Temperaturüberwachung	Warmwasserkreis					
NUT31	+M1/33. 6	+E1-33B16	Temperaturüberwachung	Ansauglufttemperatur					
NVD3	+M1/32. 4	+E1-32M4	Brenngasregler	Gasmischer					
PDS2	+M1/34. 5	+E1-34S2	Differenzdruckschalter	Motorölfilter					
SOV2	+M1/34. 0	+E1-34Y1	Magnetventil	Automatische Motorölnachfüllung					
SOV3	+M1/43. 1	+P1-43Y1	Magnetventil	Gasventil Gasdruckregelstrecke 1					
ST1	+M1/45. 1	+E1-45B19	Pickup	Kurbelwelle					
ST2	+M1/49. 8	+E1-49B20	Pickup	Nockenwelle					
TCV4	+M1/47. 1	+P1-47Y2	Temperaturregelventil	Rücklauftemperaturanhebung					
Zündung	+M1/49. 0	+E1-49G1	Zündung						
dia. ne	+A1/37. 1	+A1-37A1	Motor Management System - dia. ne						

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Designation of the components	J E233			
			Desig.	Perktold	Sportareal Ceska Lipa			Project	Suffix		
			Print	11.10.07				J E233			
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P		<i>EPLAN 5</i>	Wiring diagram	Group	+ B	Page	5

# Generator +G1

Parameters for the operation  
of GE Jenbacher Engines  
acc. TI.Nr.: 1100-0110

Modifications of Design  
reserved.


All Cables between the  
Switchboards and the Engine  
have to be in flexible mode.

Protection against electric shock hazard  
( Grounding, Potential Compensation )  
has to be provided by the Customer at  
Installation according to local Standards !  
At states of Delivery the Installation is  
prepared for Protection Connection to  
Zero Potential to and Current  
Overload Protection in TN-Network  
to IEC 60439 .



The Numbers in the circles are in  
Relation with the Numbers in the  
Interface-List J E233 4410 00

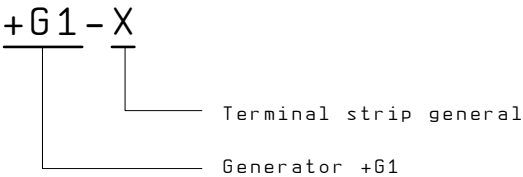
This Wiring Diagram is designed with  
a CAE-System.  
Modifications will be occupied by  
GE Jenbacher

		Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Generator +G1	J E233	Suffix	
		Desig.	Perktold				Project		
		Print	11.10.07	Sportareal Ceska Lipa			J E233	Group	+ G1
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	EPLAN 5		Wiring diagram	Page	1



Terminal strips:

Monitoring: Generator



Terminal strip -X=Terminals  
Generator +G1

Windings temperature:

warn: 155°C  
Shut down: 160°C



[illegible]

0		1		2		3		4		5		6		7		8		9	
Terminal strip  +G1-X		Device / Function		Page															
Jumpers				Windings temperature		/4. 8													
				=		/4. 8													
				=		/4. 8													



# Module interface +M1

Parameters for the operation  
of GE Jenbacher Engines  
acc. TI.Nr.: 1100-0110

Modifications of Design  
reserved.


All Cables between the  
Switchboards and the Engine  
have to be in flexible mode.

Protection against electric shock hazard  
( Grounding, Potential Compensation )  
has to be provided by the Customer at  
Installation according to local Standards !  
At states of Delivery the Installation is  
prepared for Protection Connection to  
Zero Potential to and Current  
Overload Protection in TN-Network  
to IEC 60439 .



The Numbers in the circles are in  
Relation with the Numbers in the  
Interface-List J E233 4410 00

This Wiring Diagram is designed with  
a CAE-System.  
Modifications will be occupied by  
GE Jenbacher

		Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Module interface +M1	J E233	Suffix	
		Desig.	Perktold				Project		
		Print	11.10.07	Sportareal Ceska Lipa			J E233	Group	+ M1
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	EPLAN 5		Wiring diagram	Page	1

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Diagram index

Page	Denomination	Modifications	Page	Denomination	Modifications
+M1/1	Module interface +M1		+M1/14	Slot address Over view	
+M1/2	Diagram index		+M1/15	Slot address Over view	
+M1/2.1	Diagram index		+M1/16	Slot address Over view	
+M1/2.2	Diagram index		+M1/17	Slot address Over view	
+M1/3	Wiring colours in panel		+M1/18	Slot address Over view	
+M1/4	Over view Terminal strips		+M1/19	Slot address Over view	
+M1/5	Module interface cubicle		+M1/20	BUS-RECEIVER	
+M1/6	Distribution 24VDC		+M1/21	Analog Inputs	
+M1/7	Supply Auxiliaries		+M1/22	Analog Inputs	
+M1/8	Earthing/Grounding		+M1/23	Analog Inputs	
+M1/9	Preheating		+M1/24	Analog Inputs	
+M1/10	Starting device		+M1/25	Analog Inputs	
+M1/11	Charging unit		+M1/26	Analog Inputs	
+M1/12	Resistors		+M1/27	Analog Outputs	
+M1/13	Over view modules		+M1/28	Digital Inputs	

0123456789

Diagram index

Page	Denomination	Modifications	Page	Denomination	Modifications
+M1/29	Digital Inputs		+M1/44	Butterfly flap	
+M1/30	Digital Outputs		+M1/45	Over speed	
+M1/31	Digital Outputs		+M1/46	Signals Generator <--> +M	
+M1/32	Sensors Gas engine		+M1/47	Regulator valves	
+M1/33	Sensors Gas engine		+M1/48	CAN Bus	
+M1/34	Monitoring: Gas engine		+M1/49	Ignition system IC 100	
+M1/35	Monitoring: Gas pressure		+M1/50	Ignition coils	
+M1/36	Signals <--> Generator		+M1/51	Terminals general +M1	
+M1/37	Air-gas mixer		+M1/52	Terminals general +M1	
+M1/38	Control Gas engine		+M1/53	Terminals External Voltage +M1	
+M1/39	Temperature sensor		+M1/54	Terminals Auxiliaries +M1	
+M1/40	Emergency stop		+M1/55	Terminals Auxiliaries +M1	
+M1/41	TÜV-Relay		+M1/56	Terminals Base - 0VDC	
+M1/42	1 Gas train		+M1/57	Terminals Base - 0VDC	
+M1/43	Gas valves		+M1/58	Terminals Base +24VDC	




0	1	2	3	4	5	6	7	8	9
<div><div>Wiring colours in panel:</div><div>AC :  Outside wire after (sw)black Auxiliaries-supply disconnecting device : [L1 / L2 / L3]  External Voltage : (or)orange (U/I - Measurement)  Protective wire [PE] : (gegn) green/yellow  N-Conductor [N] : (hbl) light blue  Function ground : (tr) transparent  24V AC : (gr)grey</div></div> <div><div>Wiring colours in panel:</div><div>DC :  Plus : (rt) red  Minus : (br)brown  Control : (ws) white  Thermo compensation cable : (gn) + green  (ws) - white  External Voltage : (or) orange  (Voltage free contacts)</div></div>									

2.2

4

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Wiring colours in panel	J E233		
			Desig.	Perktold	Sportareal Ceska Lipa			Project	Suffix	
			Print	11.10.07				J E233	+ M1	3
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P		EPLAN 5	Wiring diagram	Group	Page	

0	1	2	3	4	5	6	7	8	9
Over view: Terminal strips									
Module interface									
-X: -X=Terminals general +M1									
-XH: -XH=Terminals Auxiliaries +M1									
-XS: -XS=Terminals Shielded cable +M1									
-XP: -XP=Terminals Base +24VDC									
-XM: -XM=Terminals Base - 0VDC									
-XE: -XE=Terminals External Voltage +M1									
3									5
		Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Over view Terminal strips	J E233	Suffix	
		Desig.	Perktold	Sportareal Ceska Lipa			J E233	+ M1	4
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P			Wiring diagram	Group	Page
					EPLAN 5				

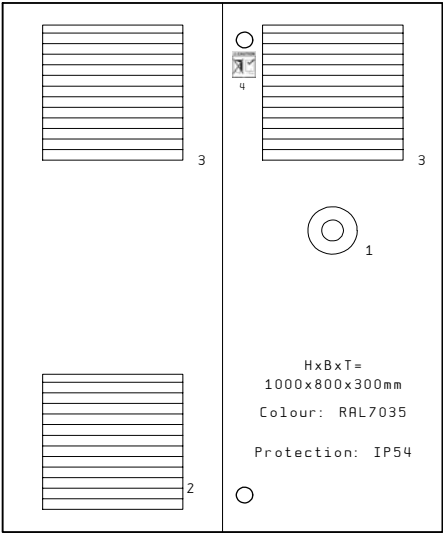
- 1 -41S1      Push button Emergency stop-off
- 2 -9M1       Panel fan
- 3 ...        escape filter
- 4 ...        caution label

SCHRANKBESCHRIFTUNG

TSCHECHISCH

Protection internal:

IP 2x / IPxxB

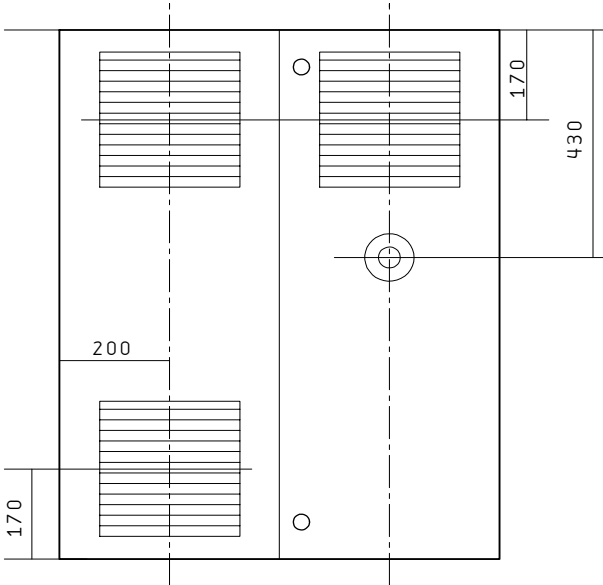


Terminal strip

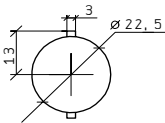
-X, -XH, -XS, XE



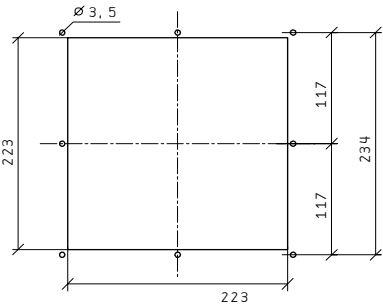
Cable entry at the bottom

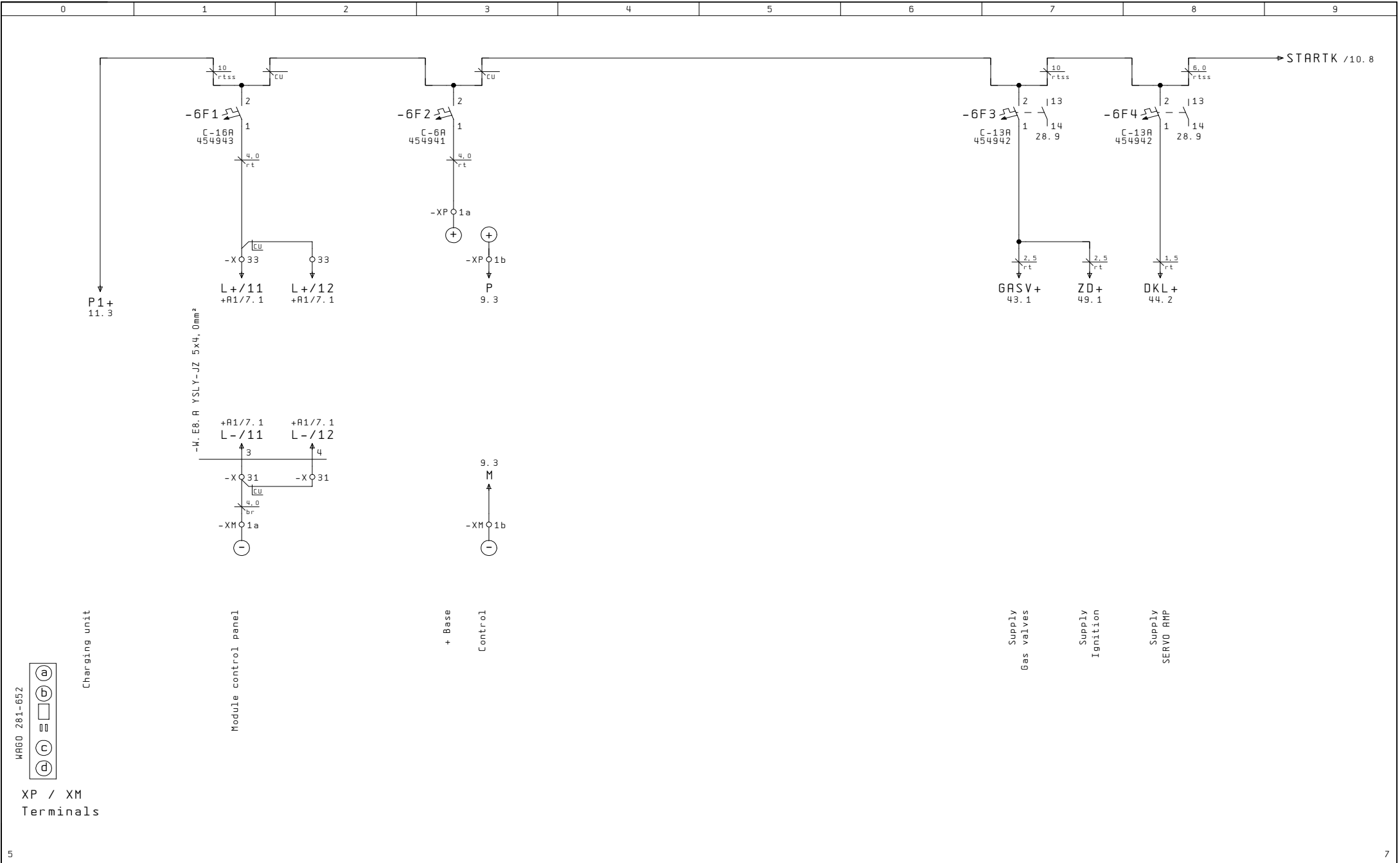


Switch/  
Emergency stop-off Push button



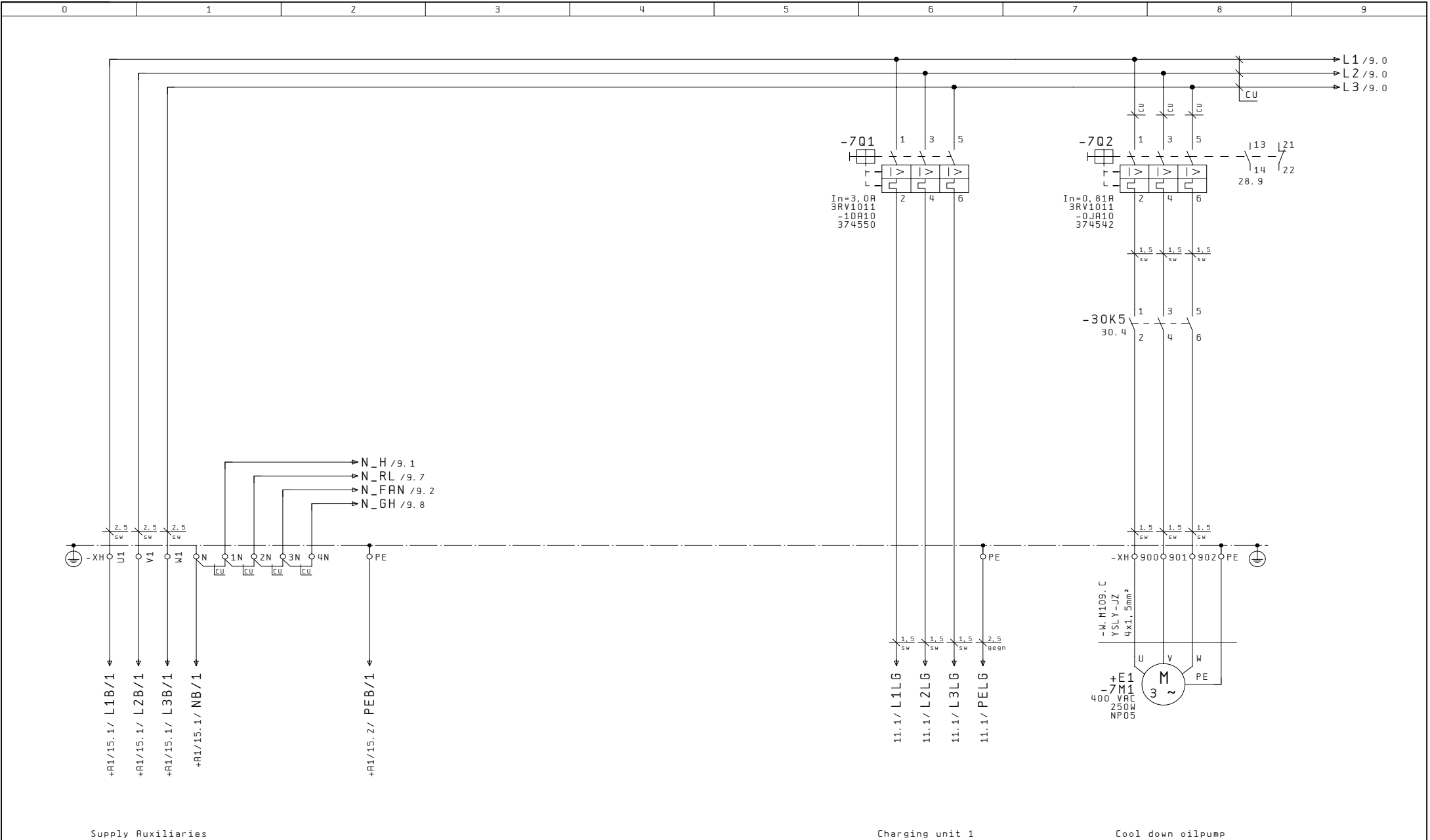
Fan/escape filter





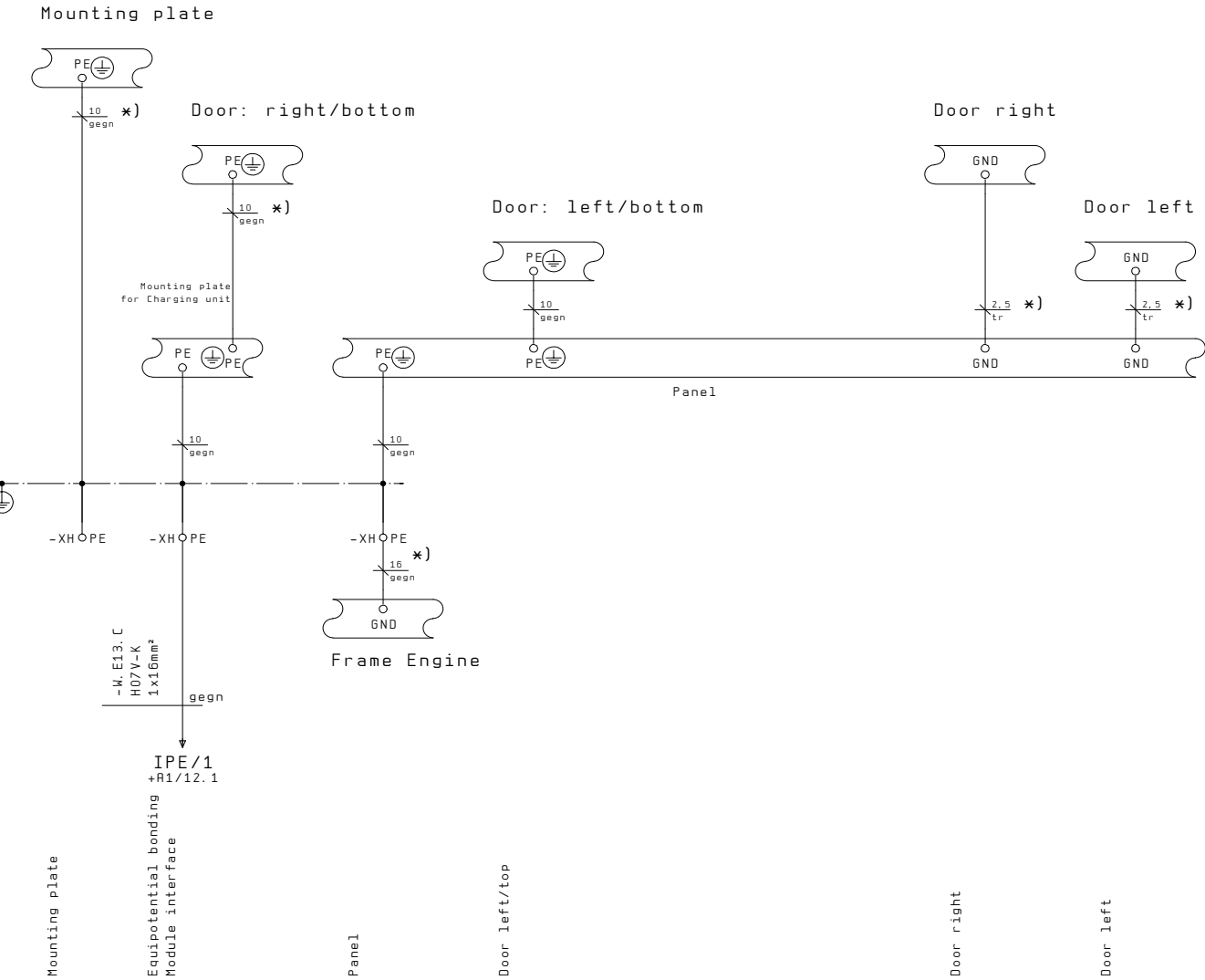
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Distribution 24VDC	J E233		
			Desig.	Perktold				Project	Suffix	
			Print	11.10.07				J E233	+ M1	6
Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	EPLAN 5	Wiring diagram	Group	Page	





6				8			
Supply Auxiliaries 3x400/230V, 50Hz, 16A				Charging unit 1			
Cool down oilpump							
6				8			
Date 21.08.07 Desig. Perktold Print 11.10.07				1 x JMS 208 GS-N.LC Sportareal Ceska Lipa			
Modific. Date Name Check				DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P			
				GE Jenbacher			
				EPLAN 5			
				Supply Auxiliaries			
				J E233			
				Project			
				Suffix			
				J E233			
				Wiring diagram			
				Group + M1			
				Page 7			

\*) all Connections as short as possible

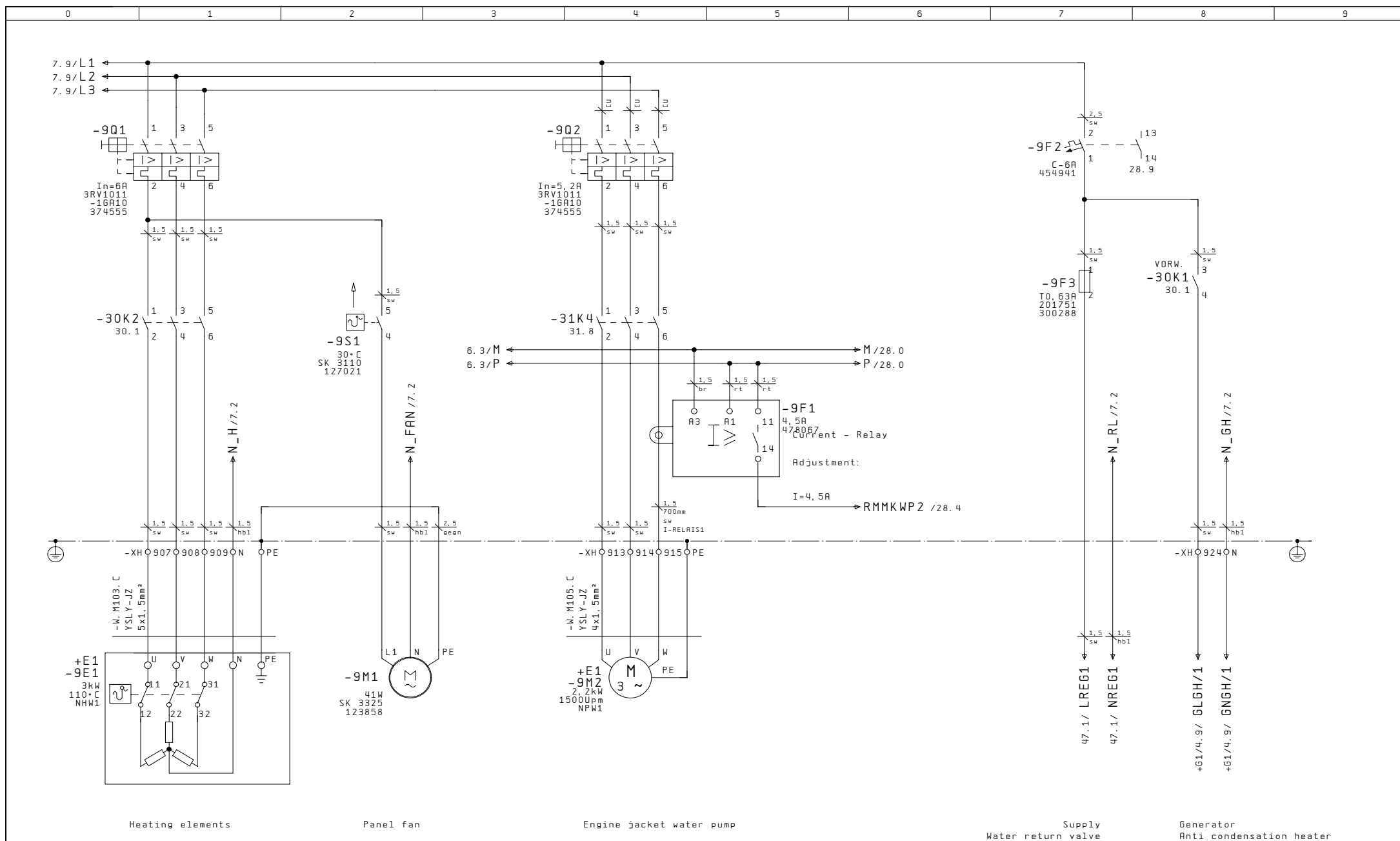



Mit SS gekennzeichnete Klemme ist  
Schirmerdung mittels Schirmschiene  
am Schrankeintritt !

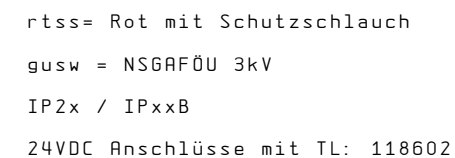
Mit E gekennzeichnete Klemmen  
sind blanke Erdungsklemmen !

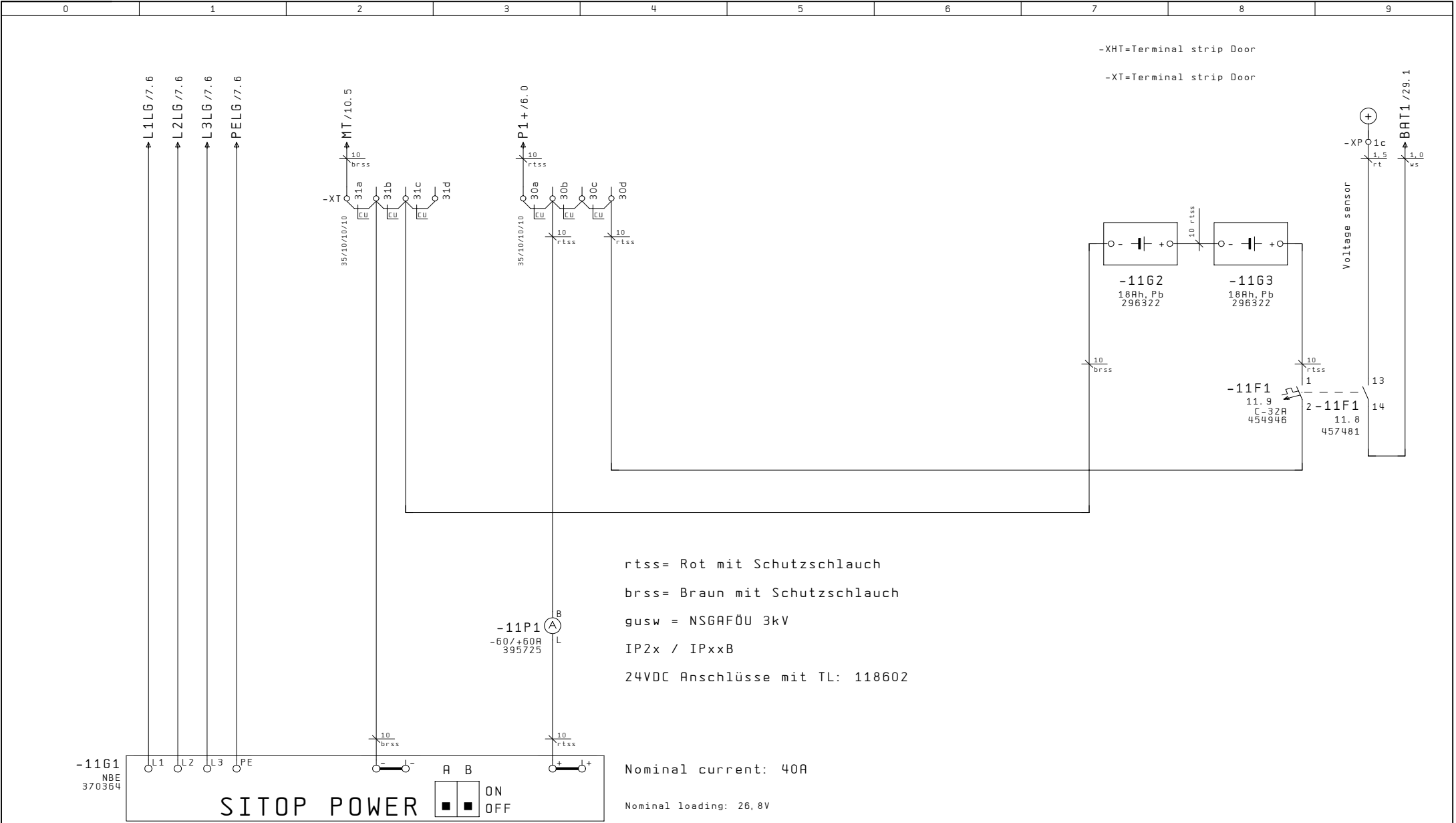
With SS indicated terminal is  
grounding of the shield with Shield bar  
at the panel entry !

With E indicated Terminals are  
uninsulated earth terminals !



			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Preheating	J E233					
			Desig.	Perktold				Project		Suffix			
			Print	11.10.07				Sportareal Ceska Lipa					
Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXX\JE233.P	<i>EPLAN 5</i>		J E233	Wiring diagram	Group	+ M1	Page	9



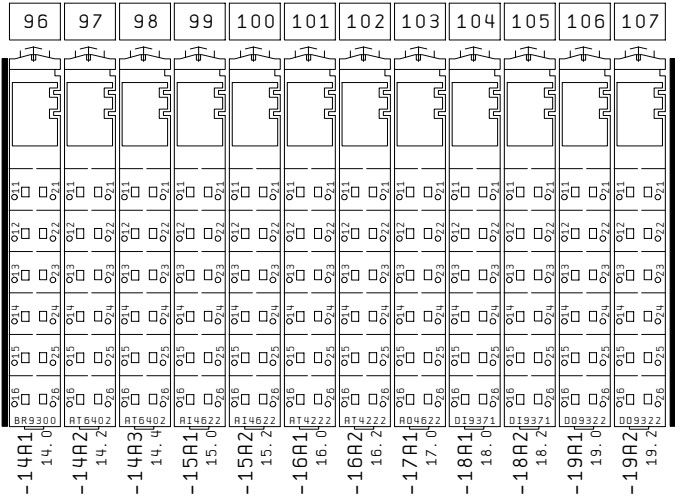


10										12									
			Date	21.08.07	1 x JMS 208 GS-N.LC			 <b>GE Jenbacher</b>	Charging unit			J E233							
			Desig.	Perktold	Sportareal Ceska Lipa							Project					Suffix		
			Print	11.10.07											J E233		+ M1		11
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P			EPLAN 5			Wiring diagram			Group		Page				



Resistor - Digital Input

60 hex = 96 dez



COVER

BR 9300 Busmodul-Receiver

AT 6402 mV / 6xThermoelement

AT 6402 mV / 6xThermoelement

AI 4622 / 4x0-20mA

AI 4622 / 4x0-20mA

AT 4222 / 4xPT100

AT 4222 / 4xPT100

AO 4622 / 4x0-20mA / 0-10V

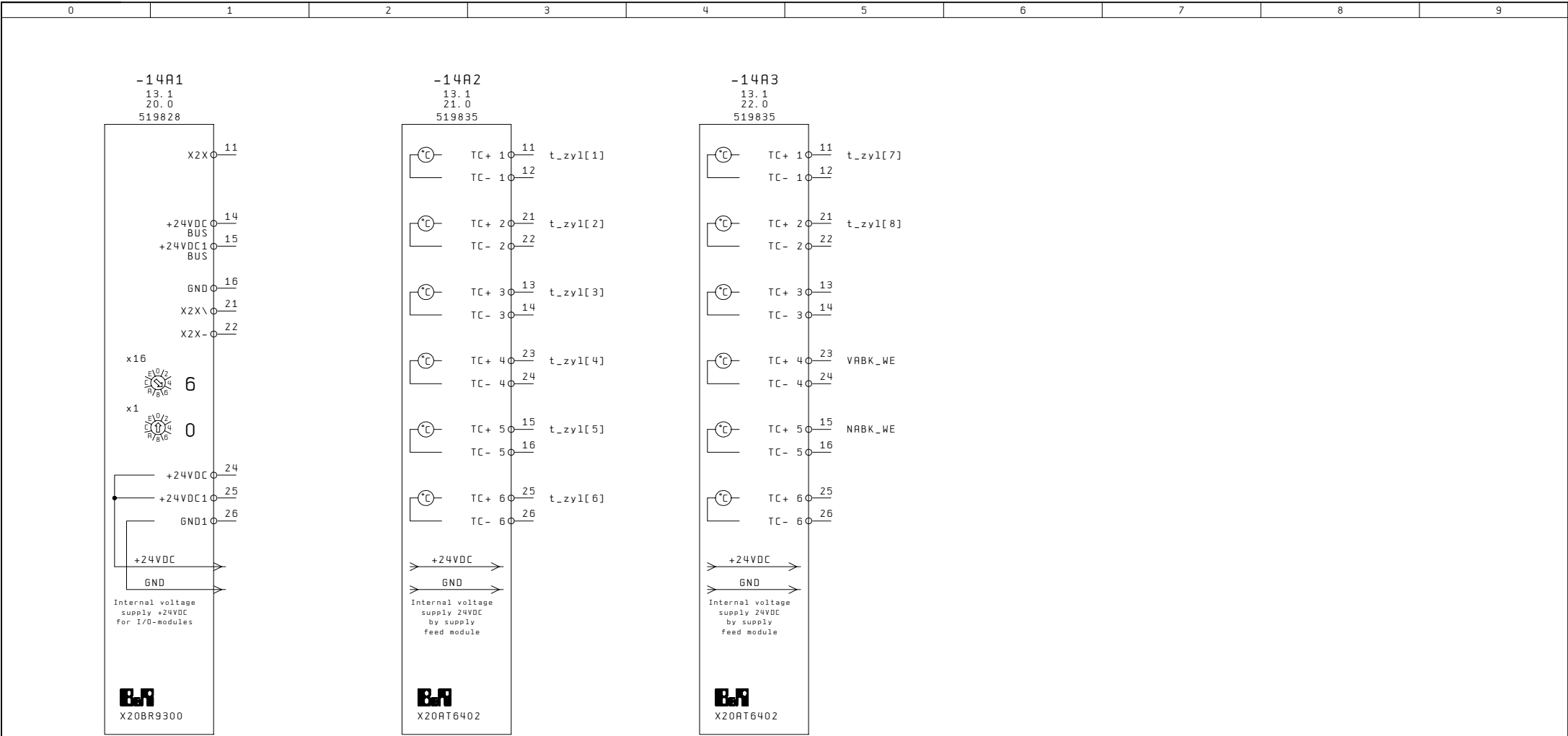
DI 9371 / 12x DI


DI 9371 / 12x DI

DO 9322 / 12x DO

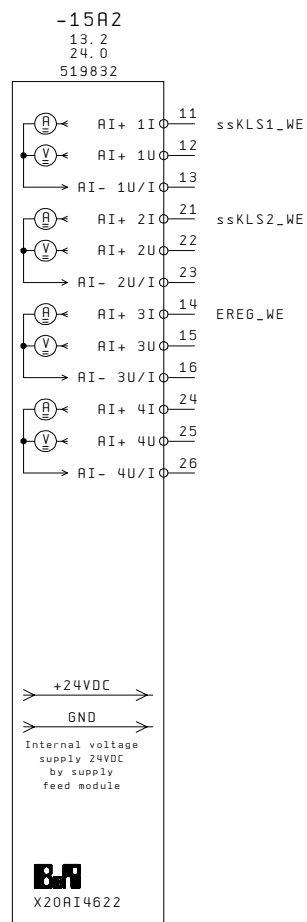
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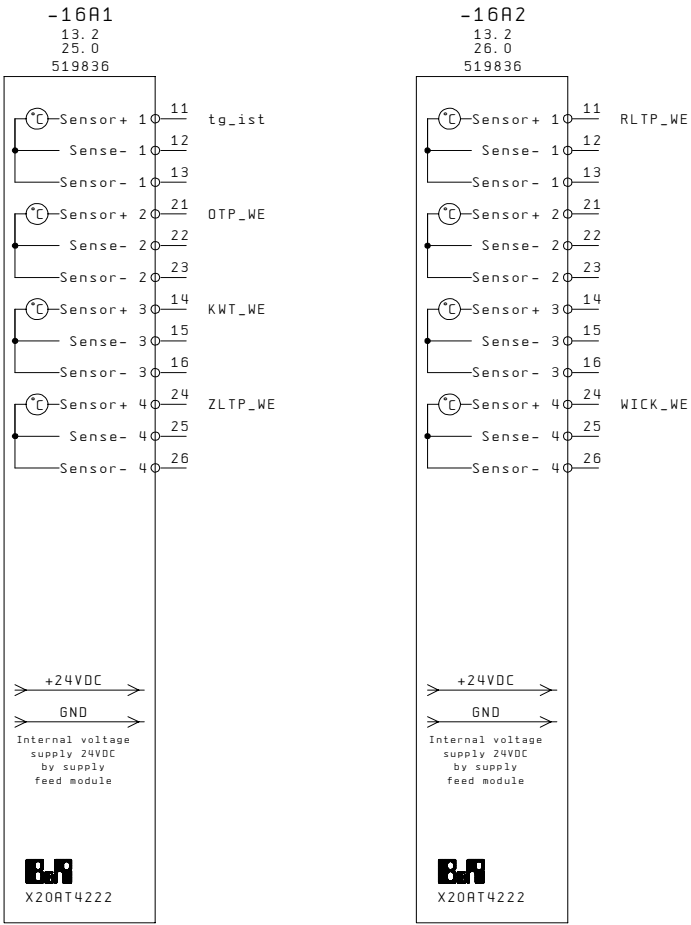
COVER



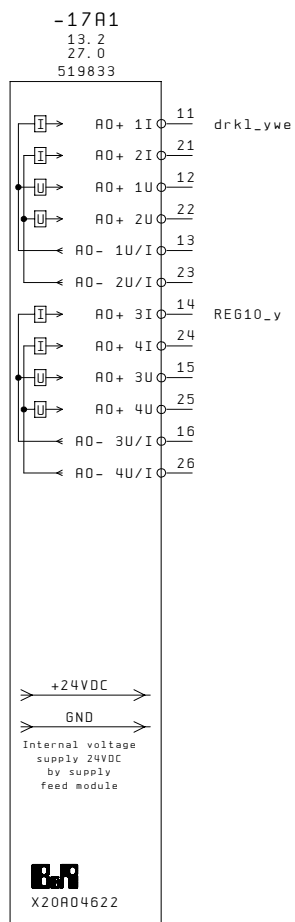
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			Desig.	Perktold	Sportareal Ceska Lipa			Project			
			Print	11.10.07				Wiring diagram	Group	+ M1	Page
Modific.	Date	Name	Check		DIR: J:\NEPLAN4\PLANLAGE\EXXX\JE233.P	<b>ePLAN 5</b>					

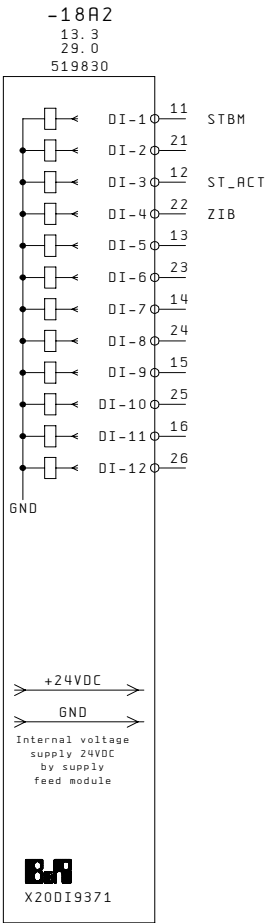
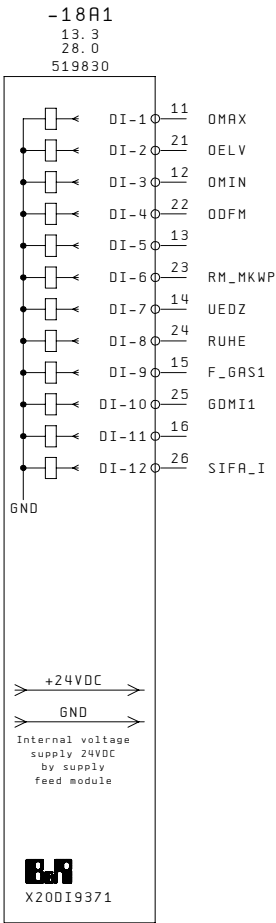




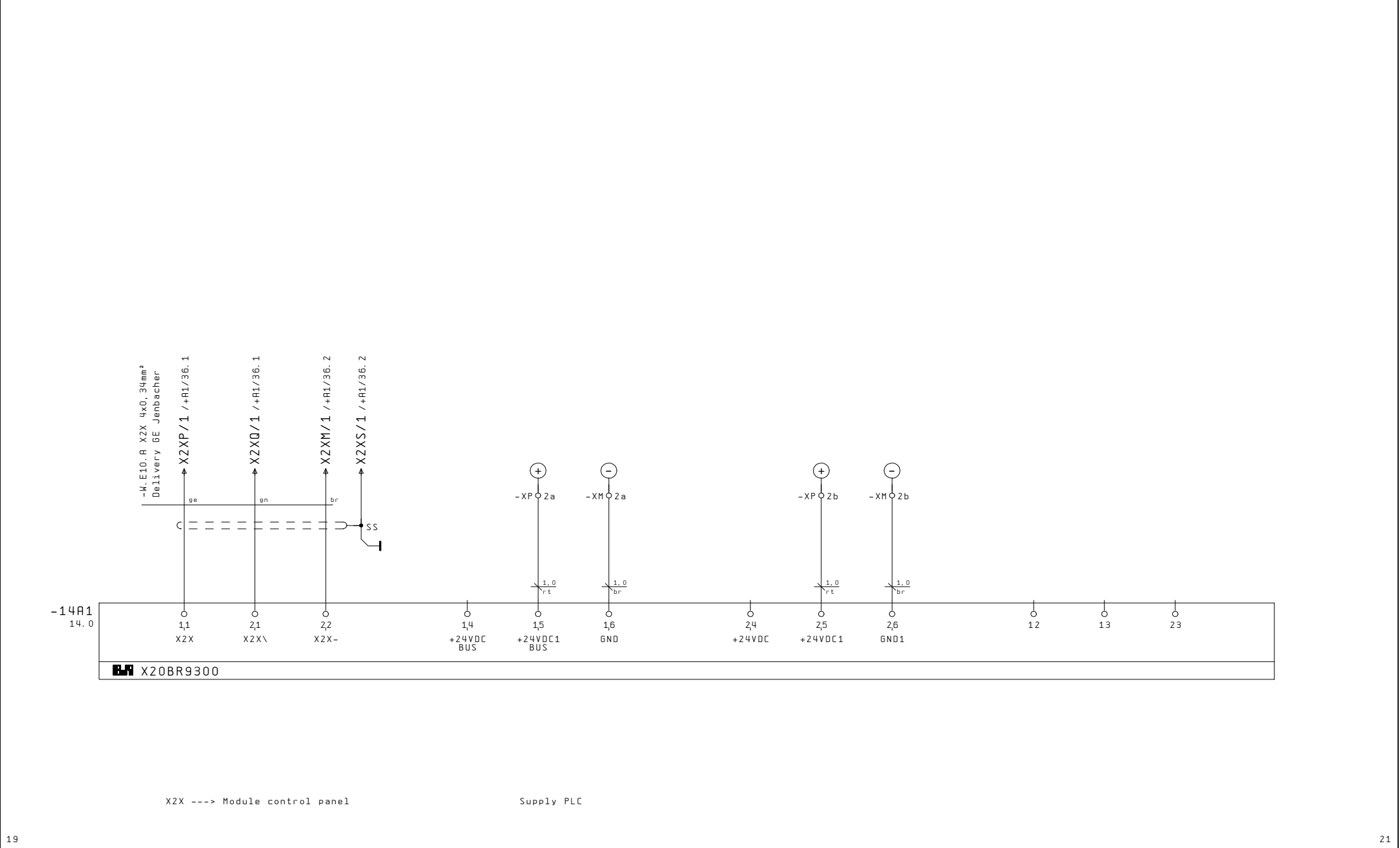


16		18
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Cylinder: 1

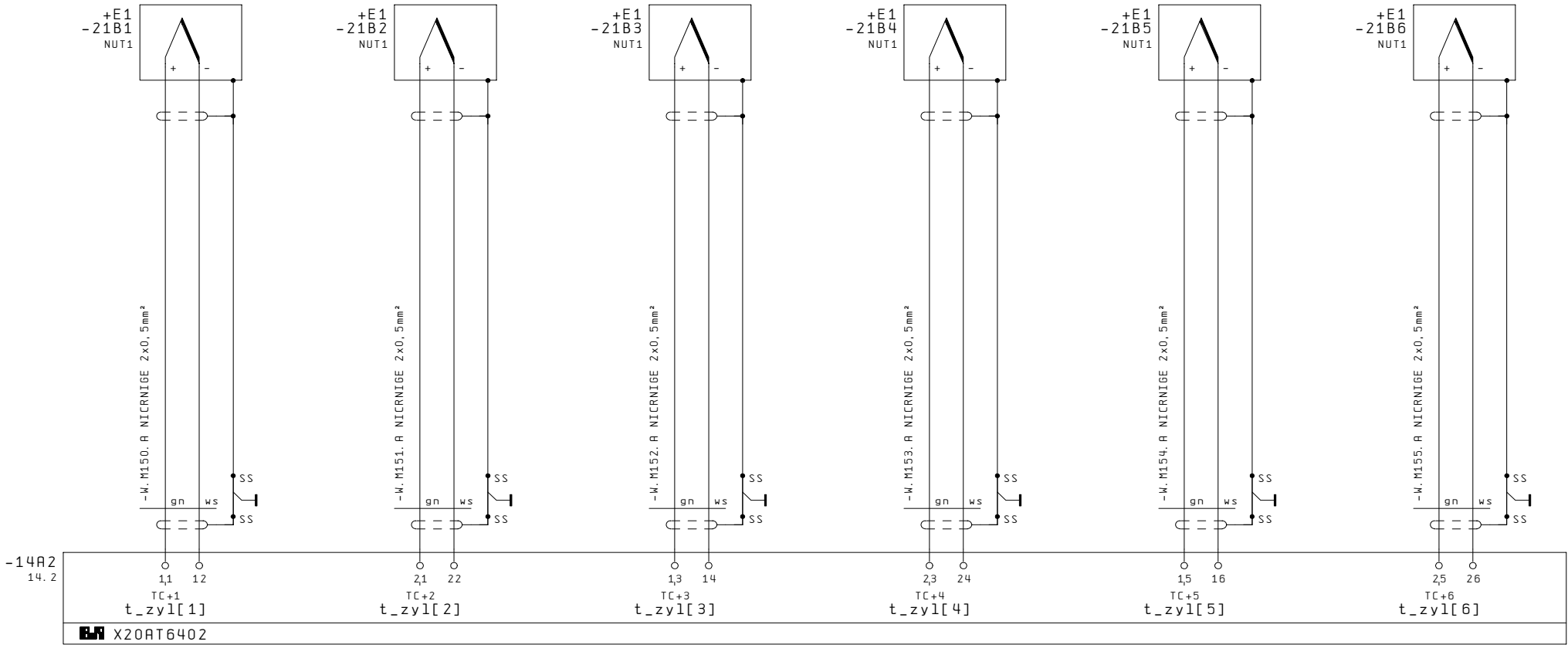
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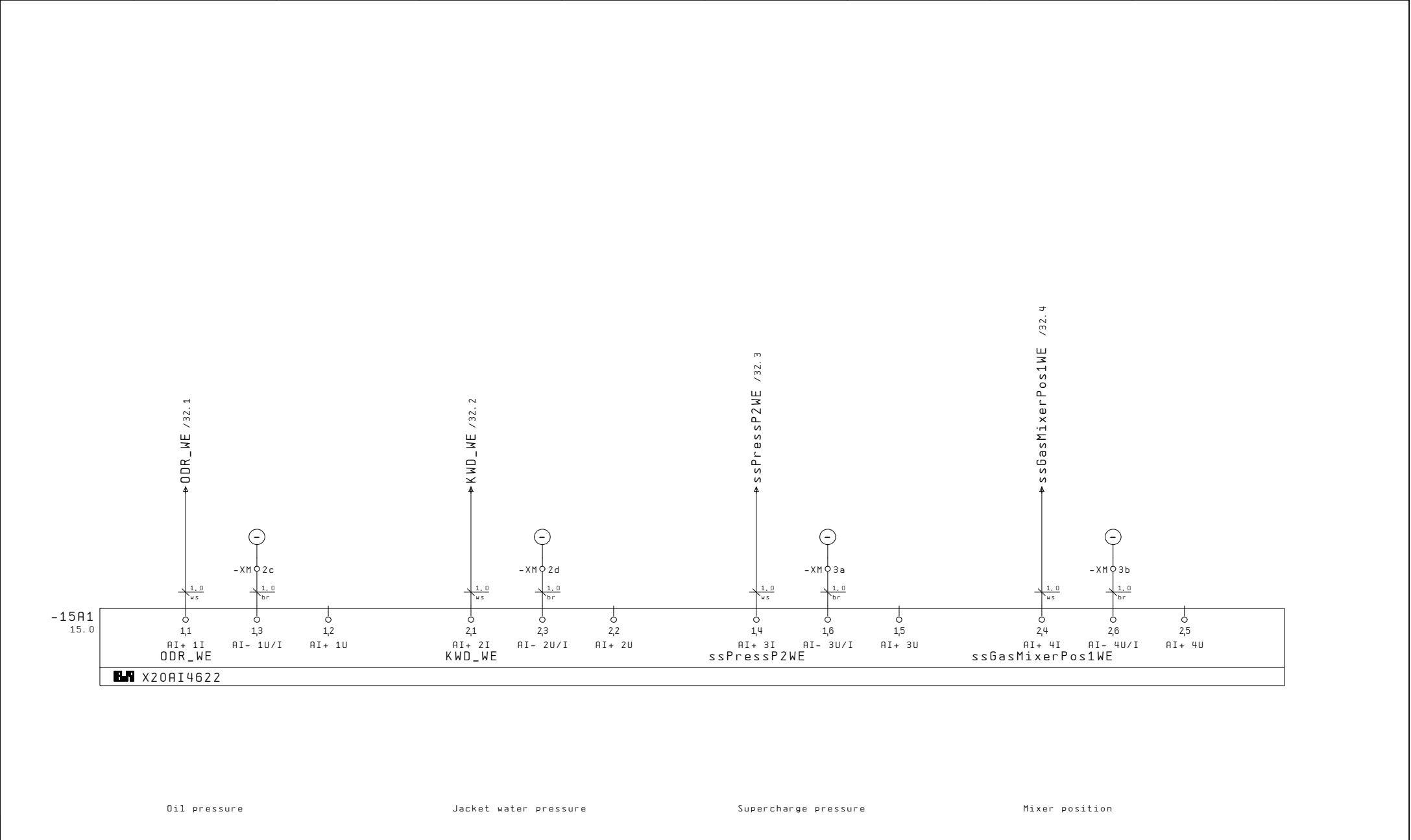


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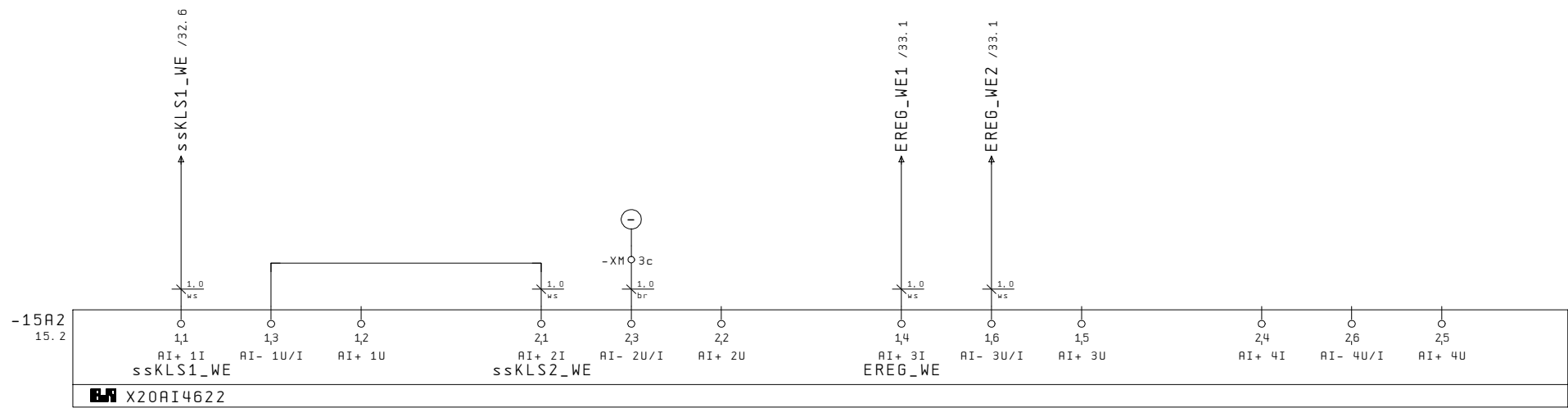


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			Desig.	Perktold				Project	Suffix		
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Modific.	Date	Name	Check		DIR: J:\EPLAN4\PA\ANLAGEN\EXXX\EZXX\JE233.P	<b>EPLAN 5</b>		J E233	Wiring diagram	Group + M1	Page 22





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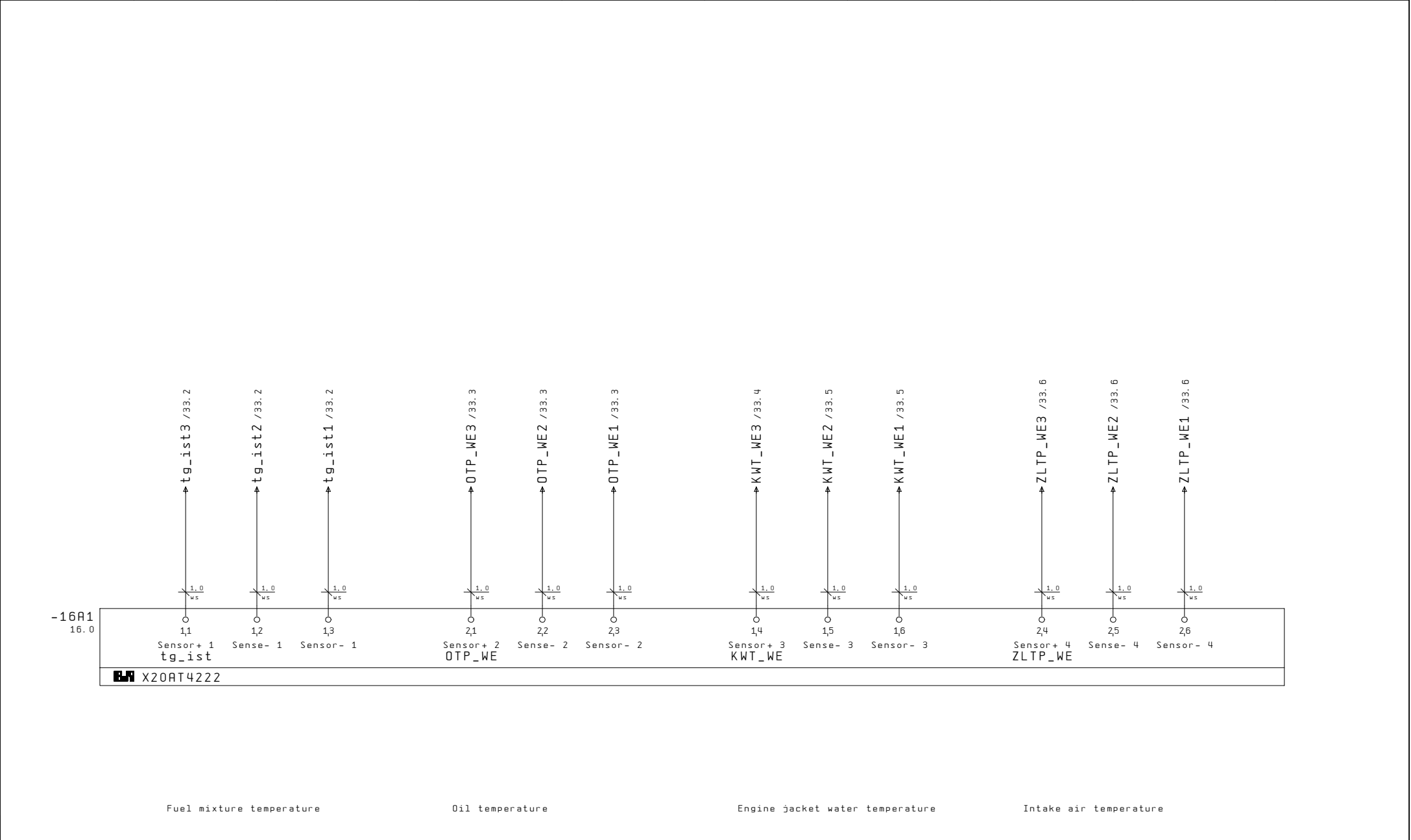


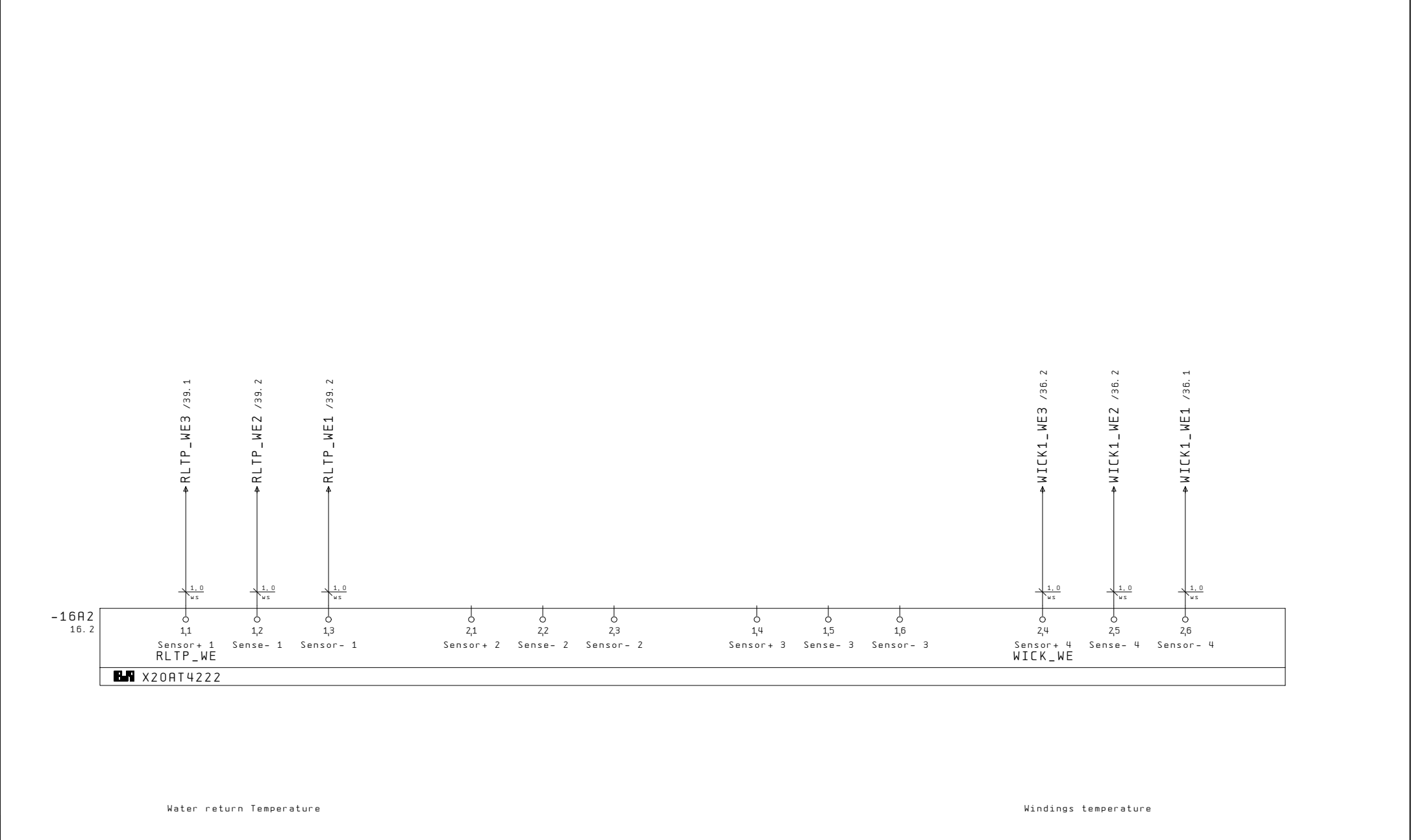
Knocking detector 1

Knocking detector 2

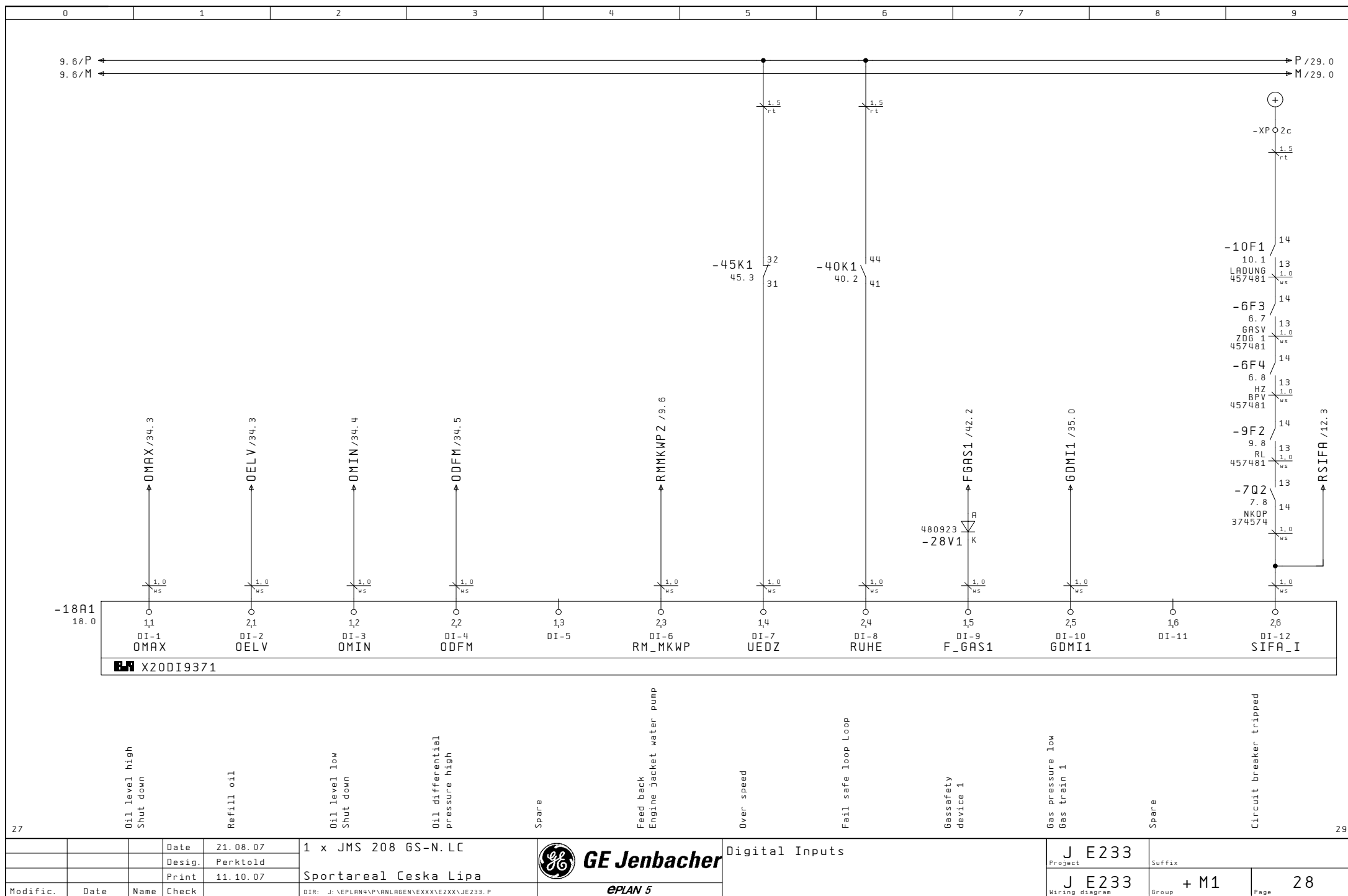
Excitation voltage Generator

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			Print	11.10.07				Wiring diagram	Group	+ M1
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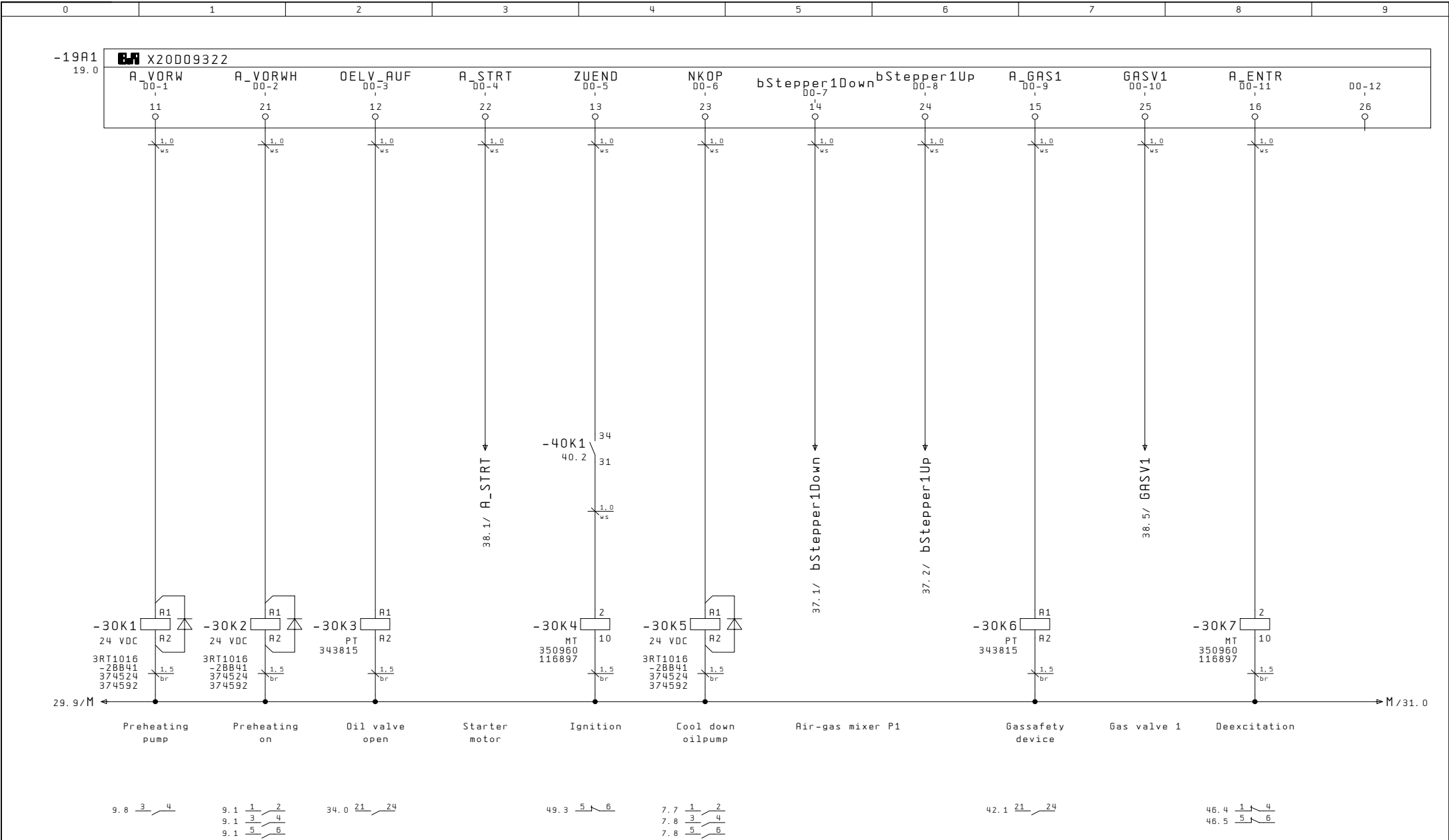







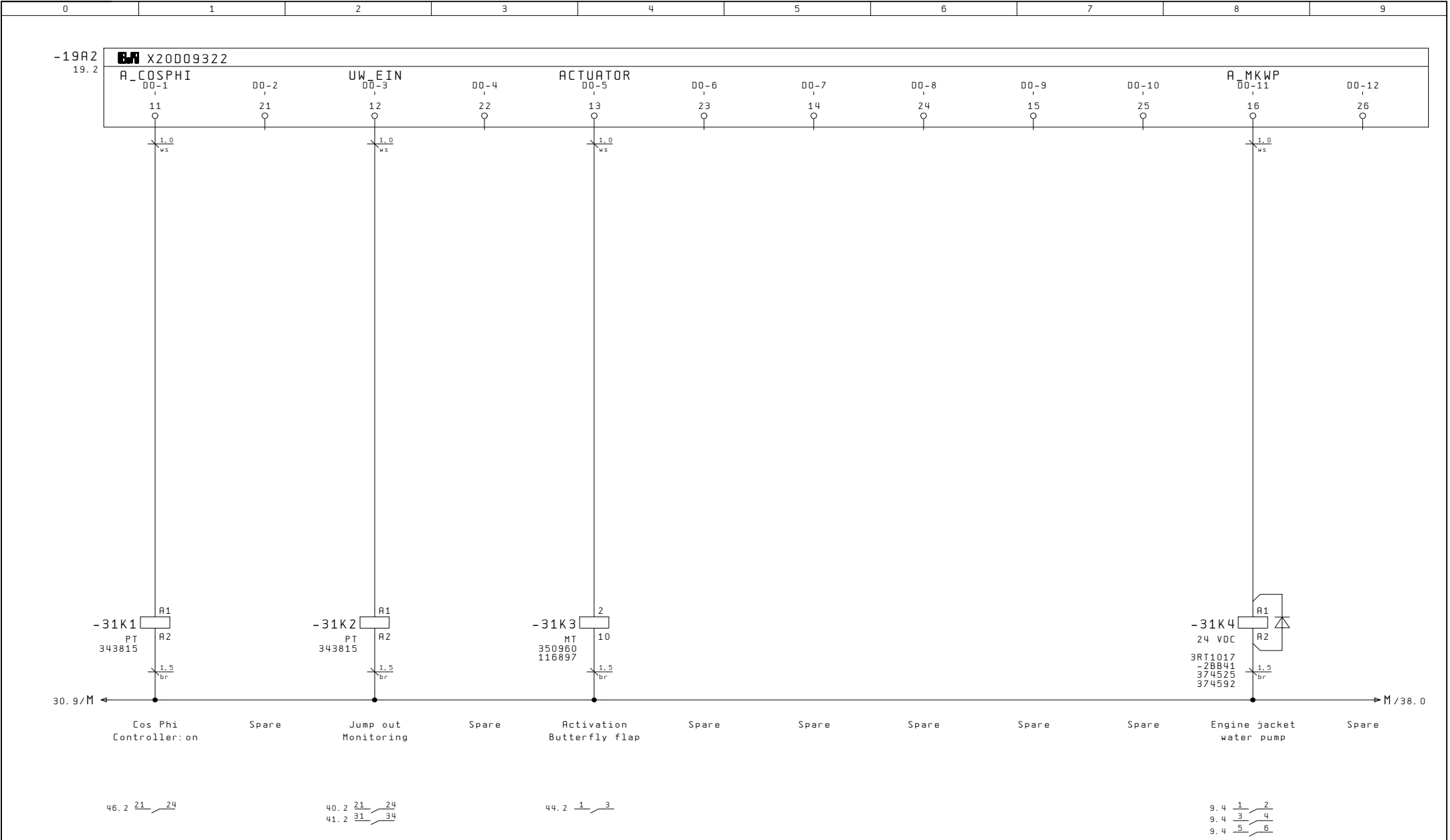




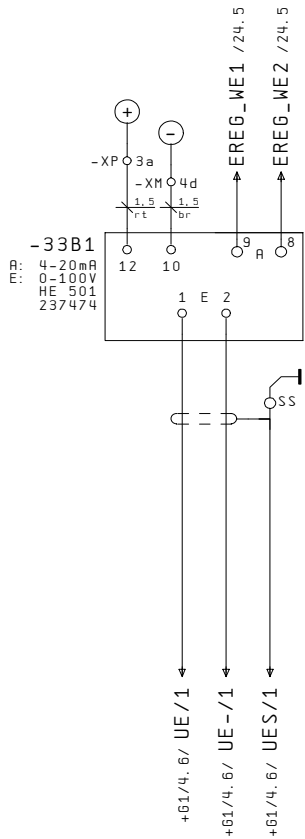


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Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P	<i>ePLAN 5</i>		J E233		+ M1	30
								Wiring diagram		Group	Page

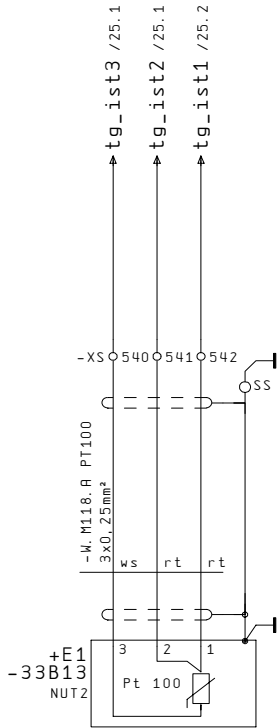




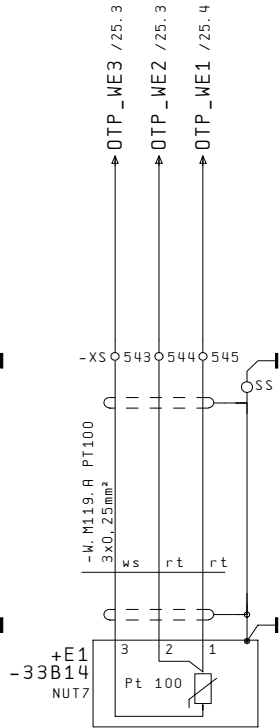




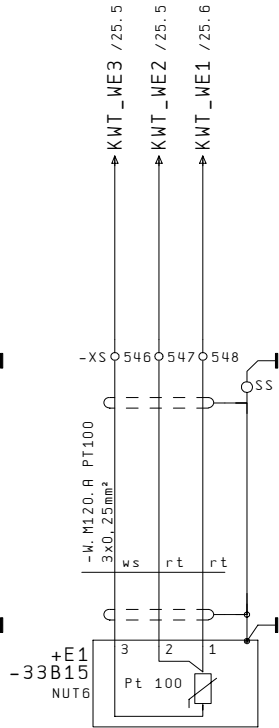
Excitation voltage Generator



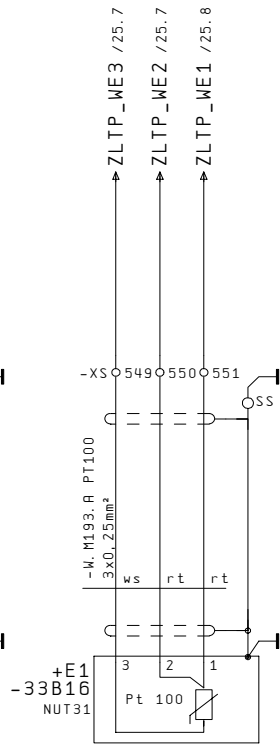
Fuel mixture temperature



Oil temperature



Engine jacket water temperature




Intake air temperature

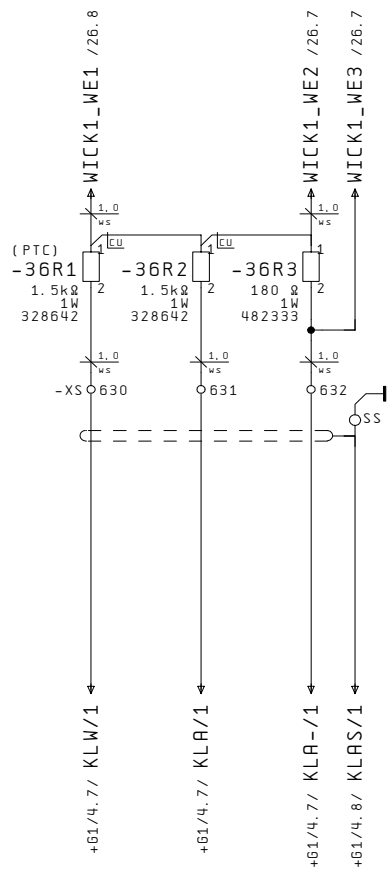
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			Desig.	Perktold	Sportareal Ceska Lipa			J E233	+ M1	34
			Print	11.10.07						
Modific.	Date	Name	Check		DIR: J:\EPLAN4\PLANLAGEN\EXXX\EZXX\JE233.P	<b>EPLAN 5</b>		Wiring diagram	Group	Page

Gas pressure low  
Gas train 1

34

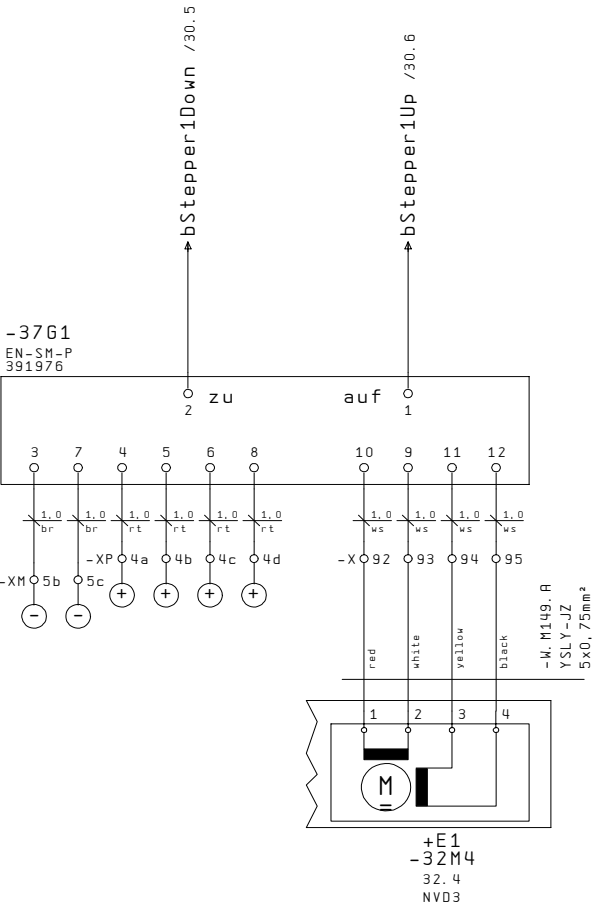
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			Desig.	Perktold				Project	Suffix	
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Modific.	Date	Name	Check		DIR: J:\EPLAN4\VP\ANLAGEN\EXXX\JE233\JE233.P	<i>EPLAN 5</i>	Wiring diagram	Group	Page	

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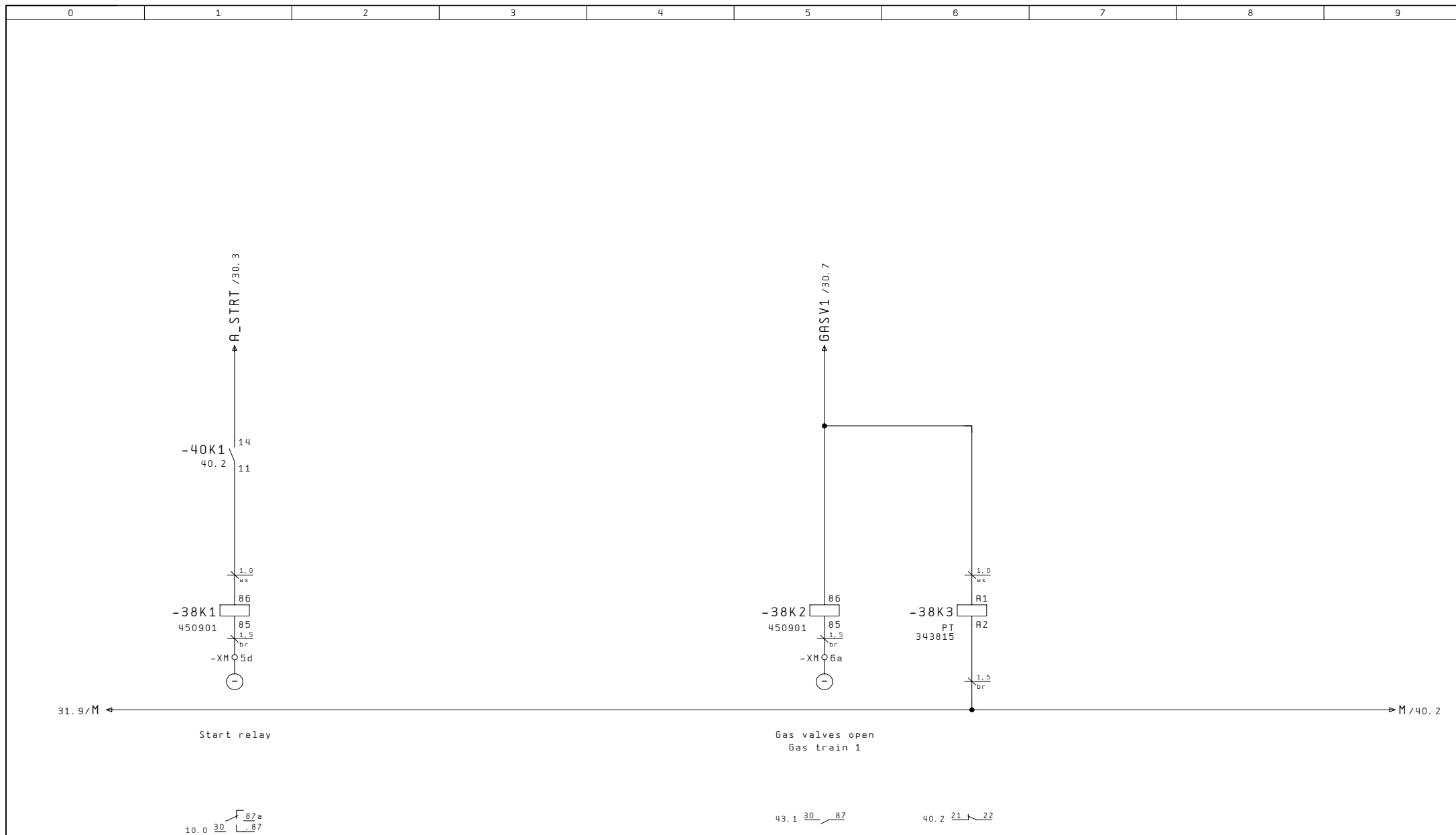
Windings temperature

35									37
		Date	21.08.07	1 x JMS 208 GS-N.LC	<div> <div> <b>GE Jenbacher</b> </div> <div> <b>SIGNALS 5</b> </div> </div> <div>Signals &lt;=&gt; Generator</div>	J E233			
		Desig.	Perktold			Project	Suffix		
		Print	11.10.07	Sportareal Ceska Lipa		J E233			
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\AN\L\GEN\EXXX\E2XX\JE233.P	EPLAN 5	Wiring diagram	Group	+ M1	Page 36



Step motor

Air-gas mixer P1




37													39		
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Control Gas engine	J E233		Suffix					
			Desig.	Perktold											
			Print	11.10.07	Sportareal Ceska Lipa										
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P		EPLAN 5	J E233		Wiring diagram		Group	+ M1	Page	38	

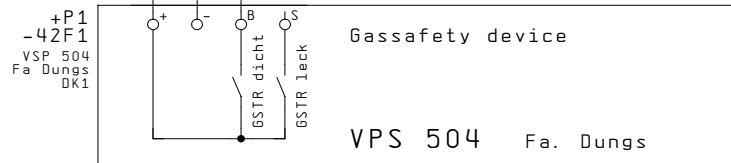






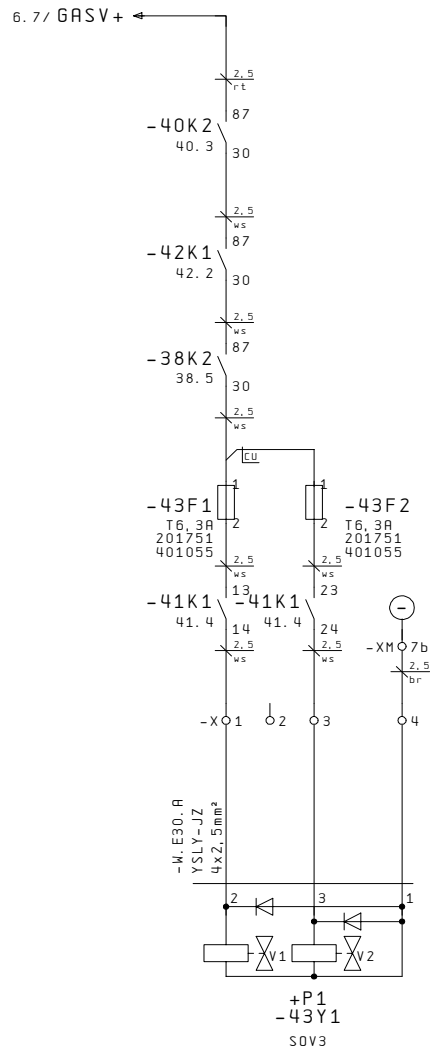


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			Desig.	Perktold						Project	Suffix		
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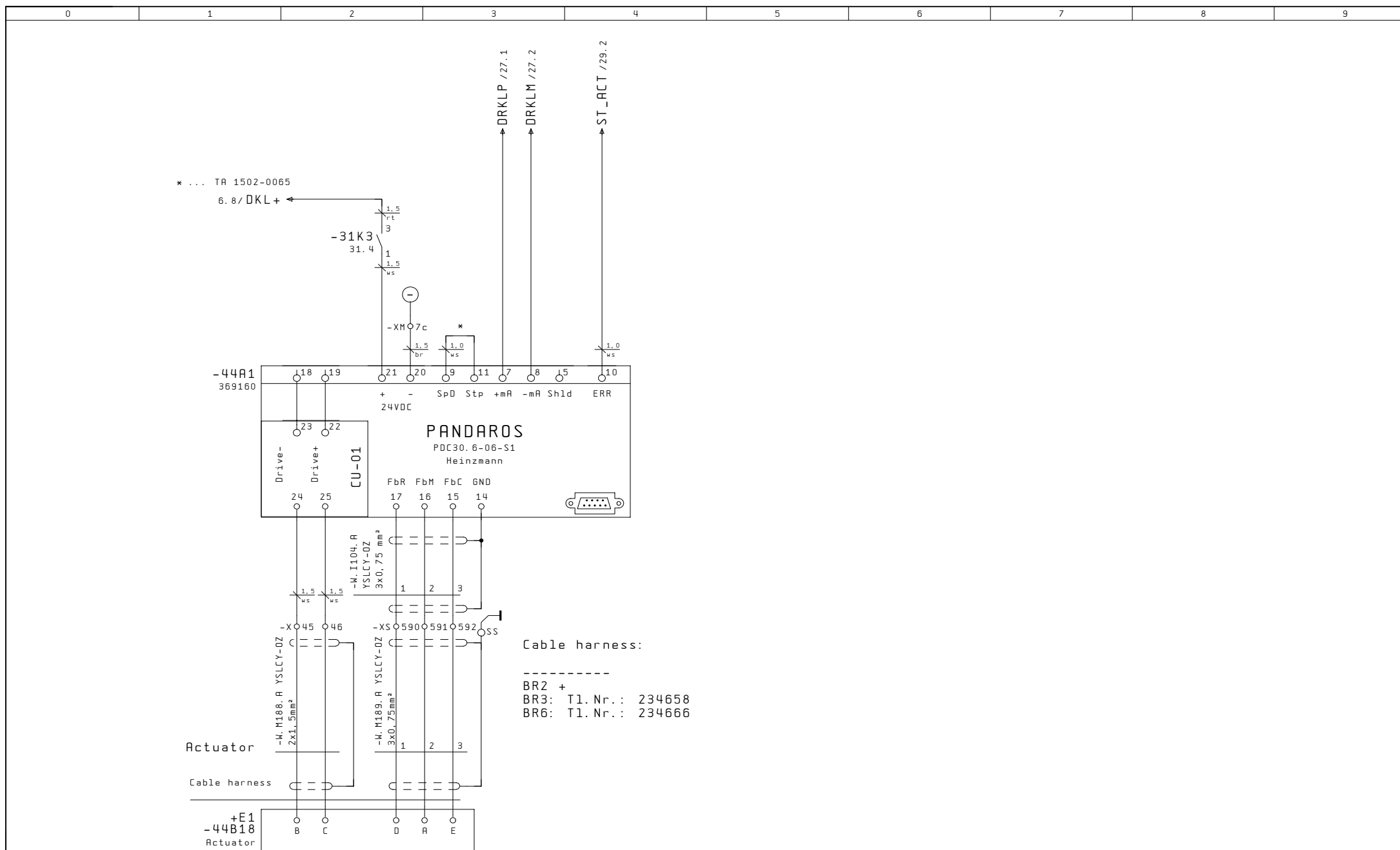


Gassafety device 1

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	1 Gas train	J E233		
			Desig.	Perktold				Project	Suffix	
			Print	11.10.07	Sportareal Ceska Lipa					
Modific.	Date	Name	Check		DIR: J:\EPLAN4\P\ANLAGEN\EXXX\EZXX\JE233.P	<b>EPLAN 5</b>		J E233	Group + M1	Page 42
								Wiring diagram		




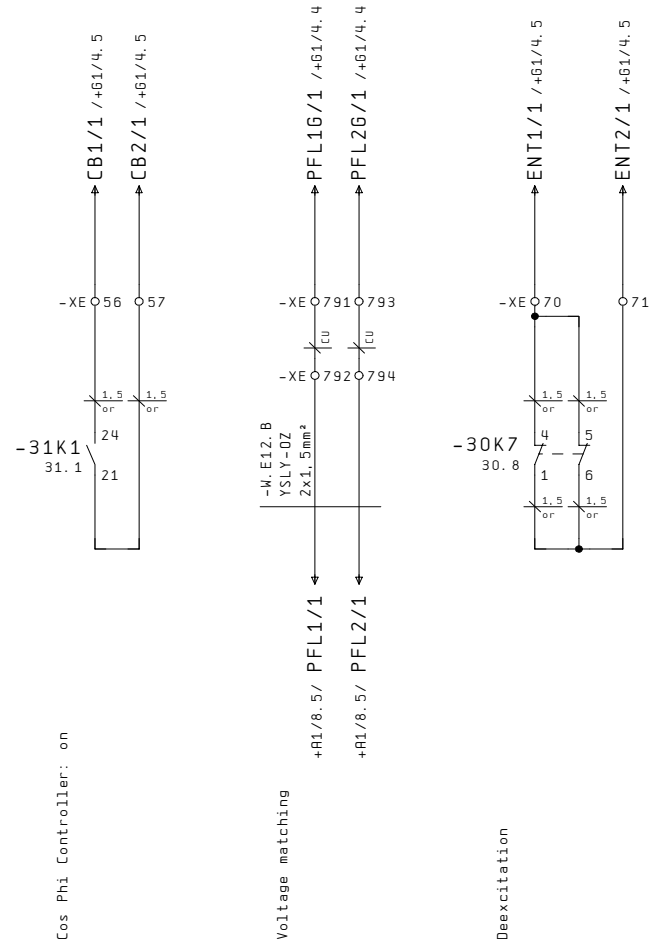
Gas valve 1  
Gas train 1



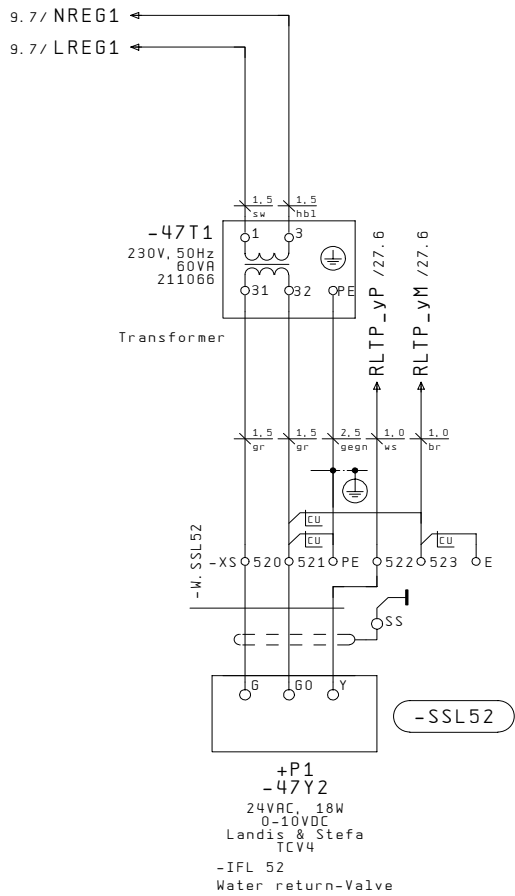
43													45												
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Butterfly flap	J E233																	
			Desig.	Perktold				Project	Suffix																
			Print	11.10.07	Sportareal Ceska Lipa																				
Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	EPLAN 5		J E233		Group + M1		Page 44													
								Wiring diagram																	




			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Over speed	J E233				
			Desig.	Perktold					Project	Suffix		
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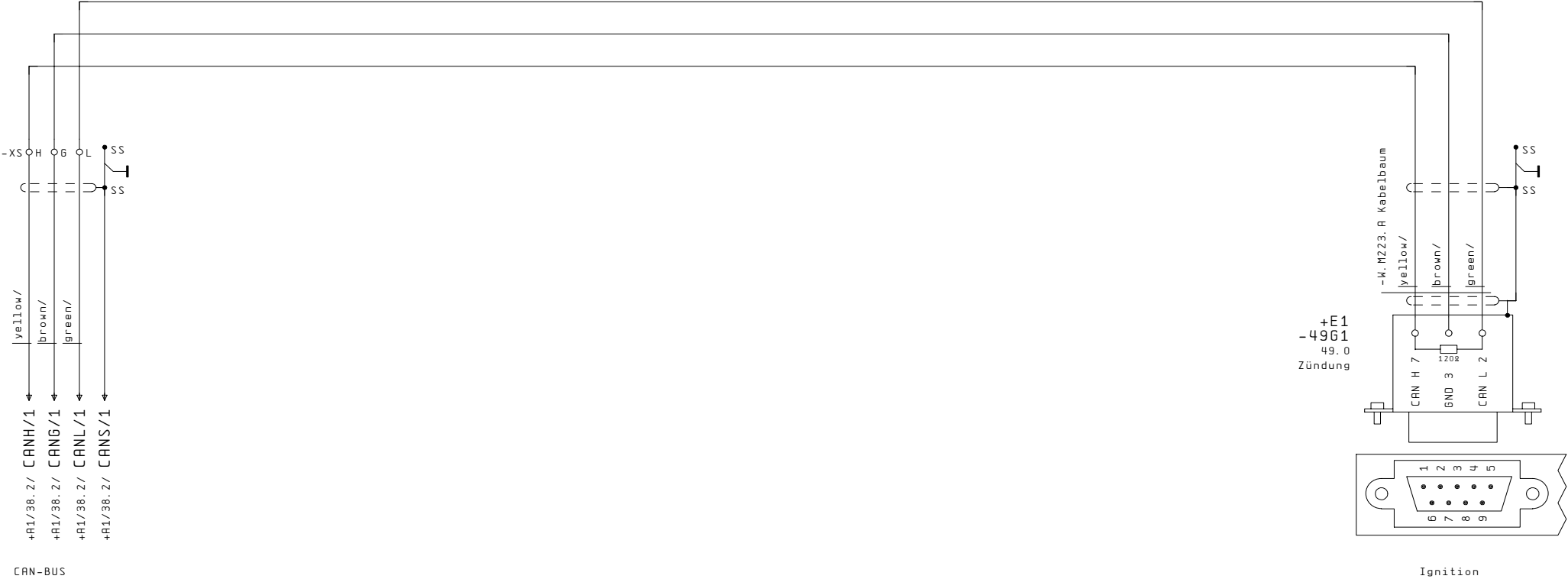




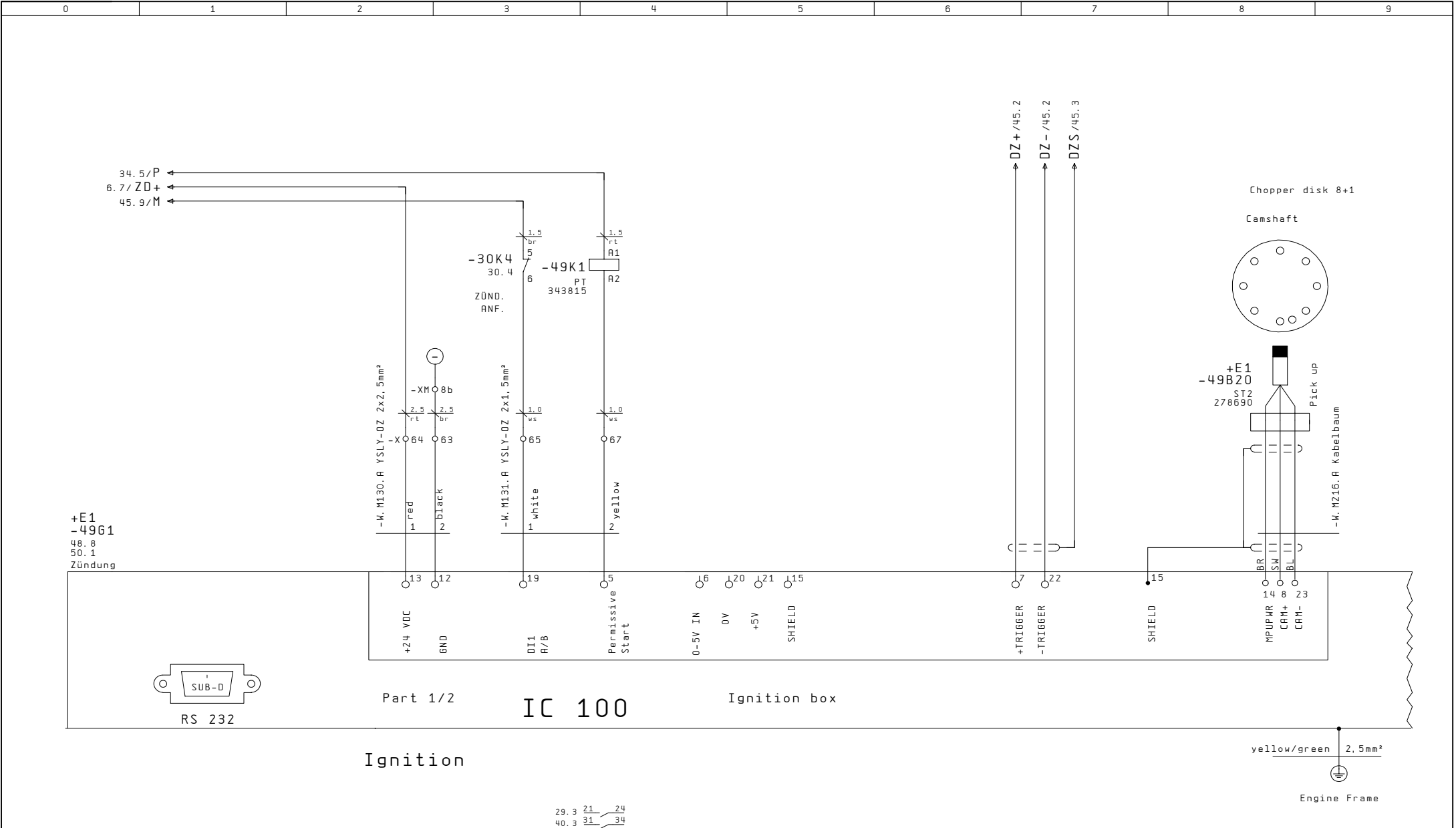


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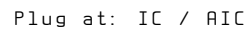
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47												49											
				Date		21.08.07		1 x JMS 208 GS-N. LC				 <b>GE Jenbacher</b>		CAN Bus				J E233					
				Desig.		Perktold		Sportareal Ceska Lipa										Project		Suffix			
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Modific.		Date		Name		Check		DIR: J:\EPLAN4\PLANLAGEN\EXXX\E2XX\JE233.P				EPLAN 5											



48										50													
						Date		21.08.07		1 x JMS 208 GS-N.LC		 <b>GE Jenbacher</b>		Ignition system IC 100				J E233					
						Desig.		Perktold										Project		Suffix			
						Print		11.10.07		Sportareal Ceska Lipa								J E233		+ M1		49	
Modific.		Date		Name		Check		DIR: J:\EPLAN4\P\ANLAGEN\EXXX\EXXX\JE233.P				<b>EPLAN 5</b>						Wiring diagram		Group		Page	



			Date	21.08.07	1 x JMS 208 GS-N.LC		Ignition coils	J E233		
			Desig.	Perktold				Project	Suffix	
			Print	11.10.07	Sportareal Ceska Lipa					
Modific.	Date	Name	Check		DIR: J:\EPLAN4\P\ANLAGEN\EXXXE2XX\JE233.P	EPLAN 5		J E233	+ M1	50
								Wiring diagram	Group	Page

				0		1		2		3		4		5		6		7		8		9	
				Terminal strip		Jumpers		Terminal															
				+M1-X																			
				Device / Function		Page																	
				Gas valve 1 Gas train 1		/43. 1																	
				=		/43. 2																	
				=		/43. 2																	
				=		/43. 2																	
				Module control panel		/6. 1																	
				=		/6. 2																	
				=		/6. 1																	
				=		/6. 2																	
				Starter motor		/10. 1																	
				Charge		/10. 1																	
				Charging unit		/10. 5																	
				Base		/10. 5																	
				Grounding 24VDC		/10. 6																	
				Actuator		/44. 2																	
				=		/44. 2																	
				Oil level: Gas engine		/34. 3																	
				=		/34. 3																	
				=		/34. 3																	
				=		/34. 3																	
				Oil valve		/34. 0																	
				=		/34. 1																	
				Ignition		/49. 3																	
				=		/49. 2																	
				=		/49. 3																	
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				Oil differential pressure high		/34. 5																	
				=		/34. 5																	

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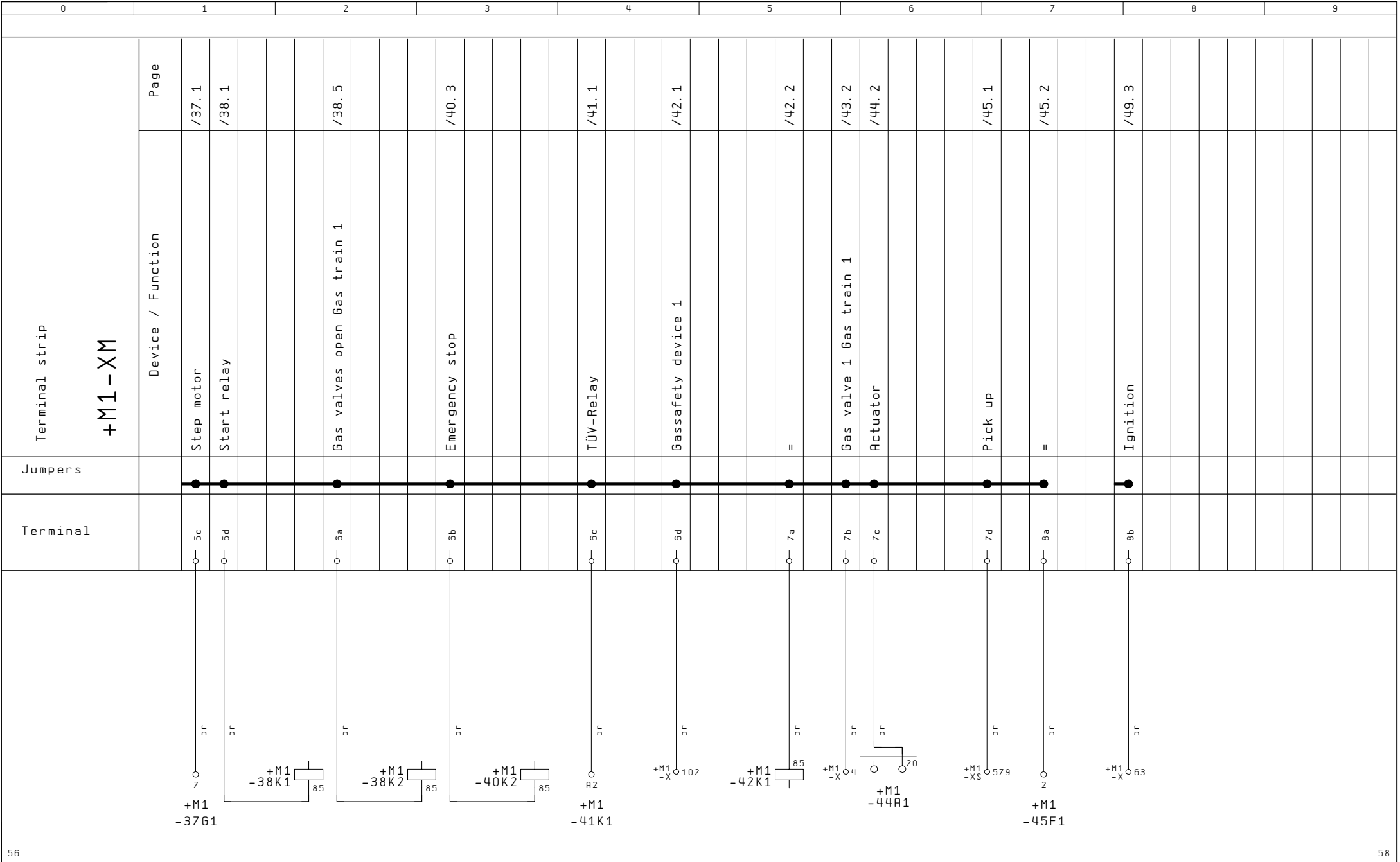


0		1		2		3		4		5		6		7		8		9	
Terminal strip		+M1-XH		Device / Function		Page													
Jumpers		Terminal		Cool down oilpump		/7.7													
				=		/7.8													
		=		/7.8															
		=		/7.8															
		=		/7.8															
		Heating elements		/9.1															
		=		/9.1															
		=		/9.1															
		=		/9.1															
		=		/9.1															
		Engine jacket water pump		/9.4															
		=		/9.4															
		=		/9.4															
		=		/9.4															
		Generator Anti condensation heater		/9.8															
		=		/9.8															
		Supply Auxiliaries 3x400/230V, 50Hz, 16A		/7.0															
		=		/7.1															
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Terminal strip		+M1-XP		Device / Function		Page													
Jumpers																			
Terminal		O- 1a																	
		O- 1b																	
		O- 1c																	
		O- 1d																	
		O- 2a																	
		O- 2b																	
		O- 2c																	
		O- 2d																	
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		O- 5b																	
		O- 5c																	
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Terminal strip  +M1-XP	Page								
	Device / Function								
Jumpers	Speed	/45. 3							
Terminal									

			Date	21.08.07	1 x JMS 208 GS-N.LC		Terminals Shielded cable +M1	J E233	Suffix	60
			Design	Perktold	Sportareal Ceska Lipa			J E233	+ M1	
			Print	11.10.07	DIR: J:\EPLAN\4\P\ANLAGEN\EXXXVE2XX\JE233.P			Wiring diagram	Page	
Modific.	Date	Name	Check			EPLAN 5				

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			Date	21.08.07	1 x JMS 208 GS-N.LC Sportareal Ceska Lipa		Terminals Shielded cable +M1	J E233	Suffix	61
			Design	Perktold				J E233	+ M1	
			Print	11.10.07				J E233		
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\EZXX\JE233.P	EPLAN 5			Group	Page	





# Module control panel +A1

Parameters for the operation  
of GE Jenbacher Engines  
acc. TI.Nr.: 1100-0110

Modifications of Design  
reserved.

All Cables between the  
Switchboards and the Engine  
have to be in flexible mode.

Protection against electric shock hazard  
( Grounding, Potential Compensation )  
has to be provided by the Customer at  
Installation according to local Standards !  
At states of Delivery the Installation is  
prepared for Protection Connection to  
Zero Potential to and Current  
Overload Protection in TN-Network  
to IEC 60439 .




The Numbers in the circles are in  
Relation with the Numbers in the  
Interface-List J E233 4410 00

This Wiring Diagram is designed with  
a CAE-System.  
Modifications will be occupied by  
GE Jenbacher

+M1/62

2

a			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Module control panel +A1	J E233			
			Desig.	Perktold				Project		Suffix	
			Print	11.10.07				Sportareal Ceska Lipa		J E233	
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P		ePLAN 5		Wiring diagram		Group	Page
											1

EPLAN 5

Diagram index

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0123456789

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+A1/43	Emergency stop		+A1/58	Terminals Base +24VDC	

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Page	Denomination			Modifications		Page	Denomination		
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+A1/60	Terminals Shielded cable +A1								

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<div><div>Wiring colours in panel:</div><div>AC :  Outside wire before (vi)violet Auxiliaries-supply disconnecting device : [L1 / L2 / L3]  Outside wire after (sw)black Auxiliaries-supply disconnecting device : [L1 / L2 / L3]  External Voltage : (or)orange (U/I - Measurement)  Protective wire [PE] : (gegn) green/yellow  N-Conductor [N] : (hbl) light blue  Function ground : (tr) transparent  24V AC : (gr)grey</div></div> <div><div>Wiring colours in panel:</div><div>DC :  Plus : (rt) red  Minus : (br)brown  Control : (ws) white  Thermo compensation cable : (gn) + green  (ws) - white  External Voltage : (or) orange  (Voltage free contacts)</div></div>									

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Wiring colours in panel	J E233		
			Desig.	Perktold	Sportareal Ceska Lipa			Project	Suffix	
			Print	11.10.07				J E233	+ A1	3
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Over view Terminal strips

- X: -X=Terminals  
general +A1
- XH: -XH=Terminals  
Auxiliaries +A1
- XH1: -XH1=Terminals  
Supply Auxiliaries
- XS: -XS=Terminals  
Shielded cable +A1
- XP: -XP=Terminals  
Base +24VDC
- XM: -XM=Terminals  
Base - 0VDC
- XE: -XE=Terminals  
External Voltage +A1



Side wall

Door hinges: right

Cable entry at the top

Colour:  
Panel RAL7035  
Base RAL7022

Protection: IP40

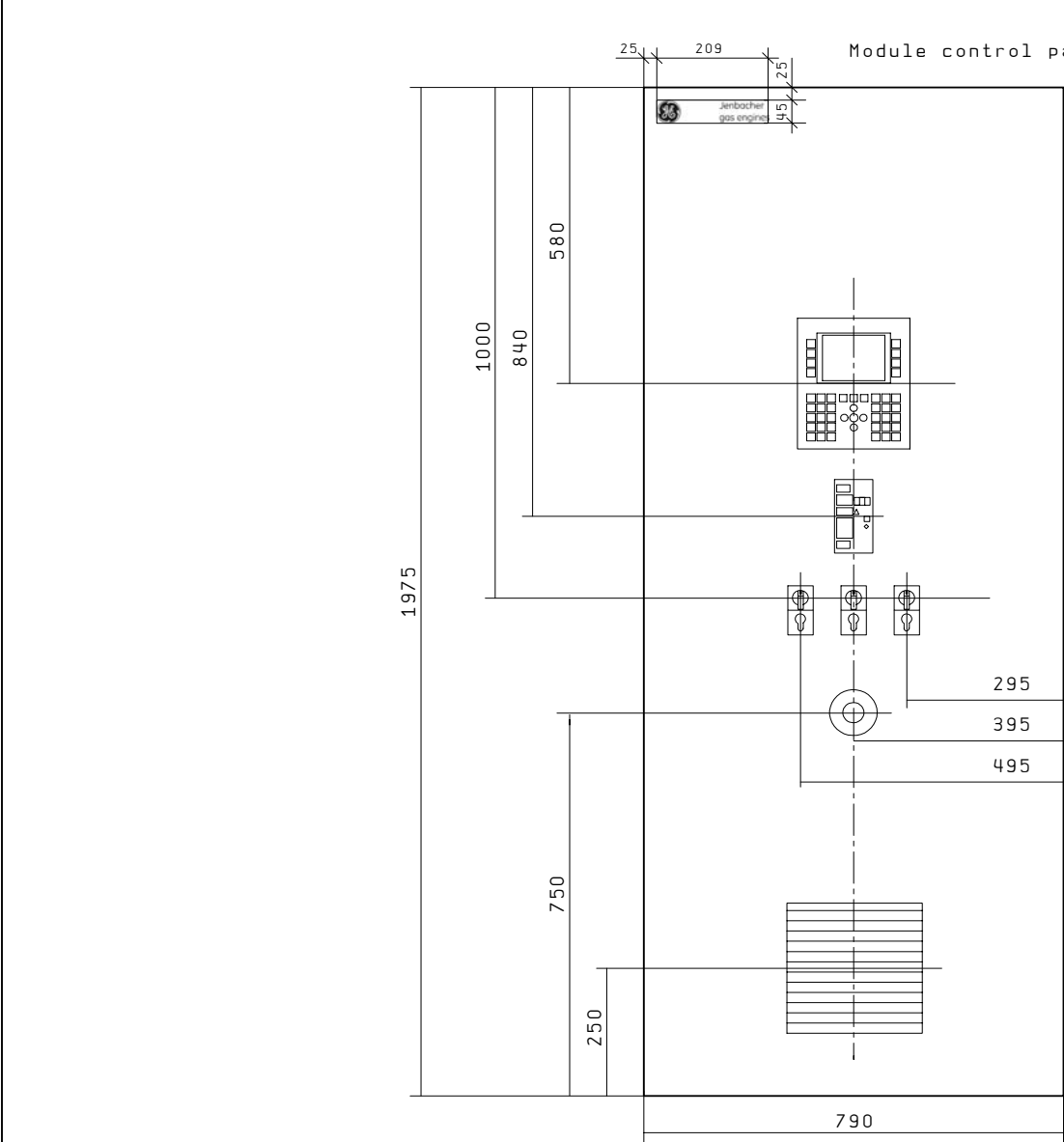
## Positioning:

- |    |       |   |
|----|-------|---|
| 1  | -37A1 | DIANE   |
| 2  | -9A1  | Mains monitoring device                         |
| 3  | -11S1 | Service selector switch                         |
| 4  | -11S2 | Demand selector switch                          |
| 5  | -11S3 | Synchronisation selector switch                 |
| 6  | -43S1 | Emergency stop                                  |
| 7  | -15M1 | Panel fan                                       |
| 8  | ..    | brand label                                     |
| 9  | ..    | caution label                                   |
| 10 | ..    | inside: Auxiliaries-supply disconnecting device |

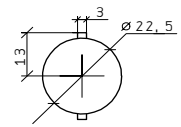
SCHRANKBESCHRIFTUNG  
TSCHECHISCH

Protection internal:  
IP 2x / IPxxB

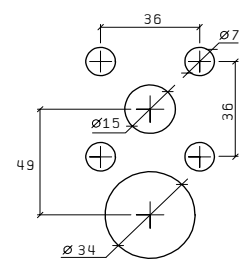
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			Desig.	Perktold				Project	Suffix		
			Print	11.10.07				Sportareal Ceska Lipa	J E233	+ A1	5
Modific.	Date	Name	Check		DIR: J:\EPLAN4\PLANLAGEN\EXXX\EZXX\JE233.P	EPLAN 5	Wiring diagram	Group	Page		



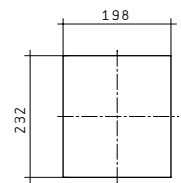
Switch/  
Emergency stop Push button



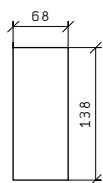
Switch to lock



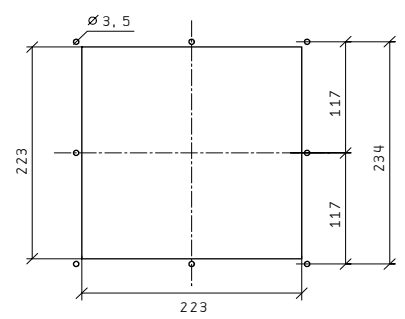
DIANE XT



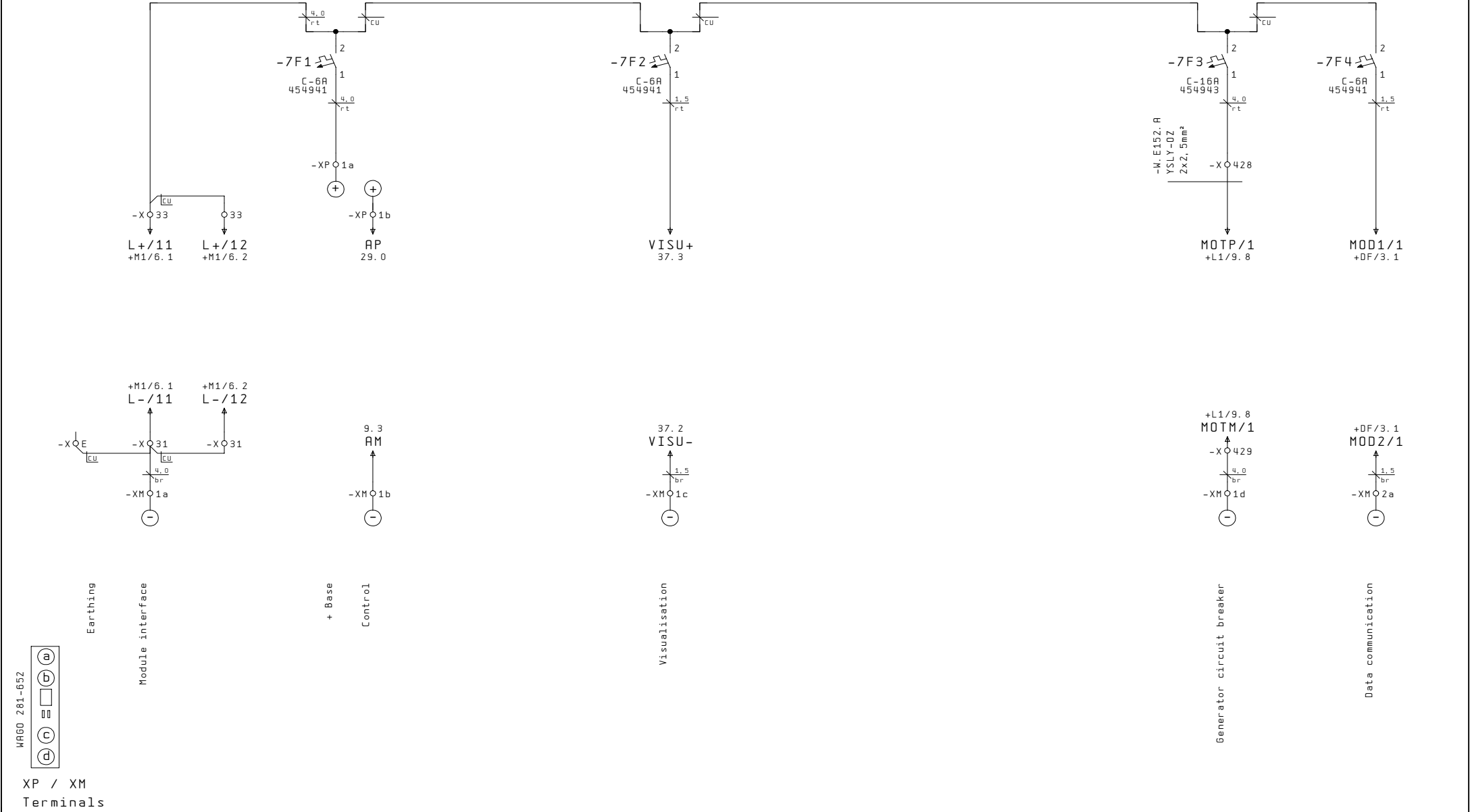
Mains monitoring device

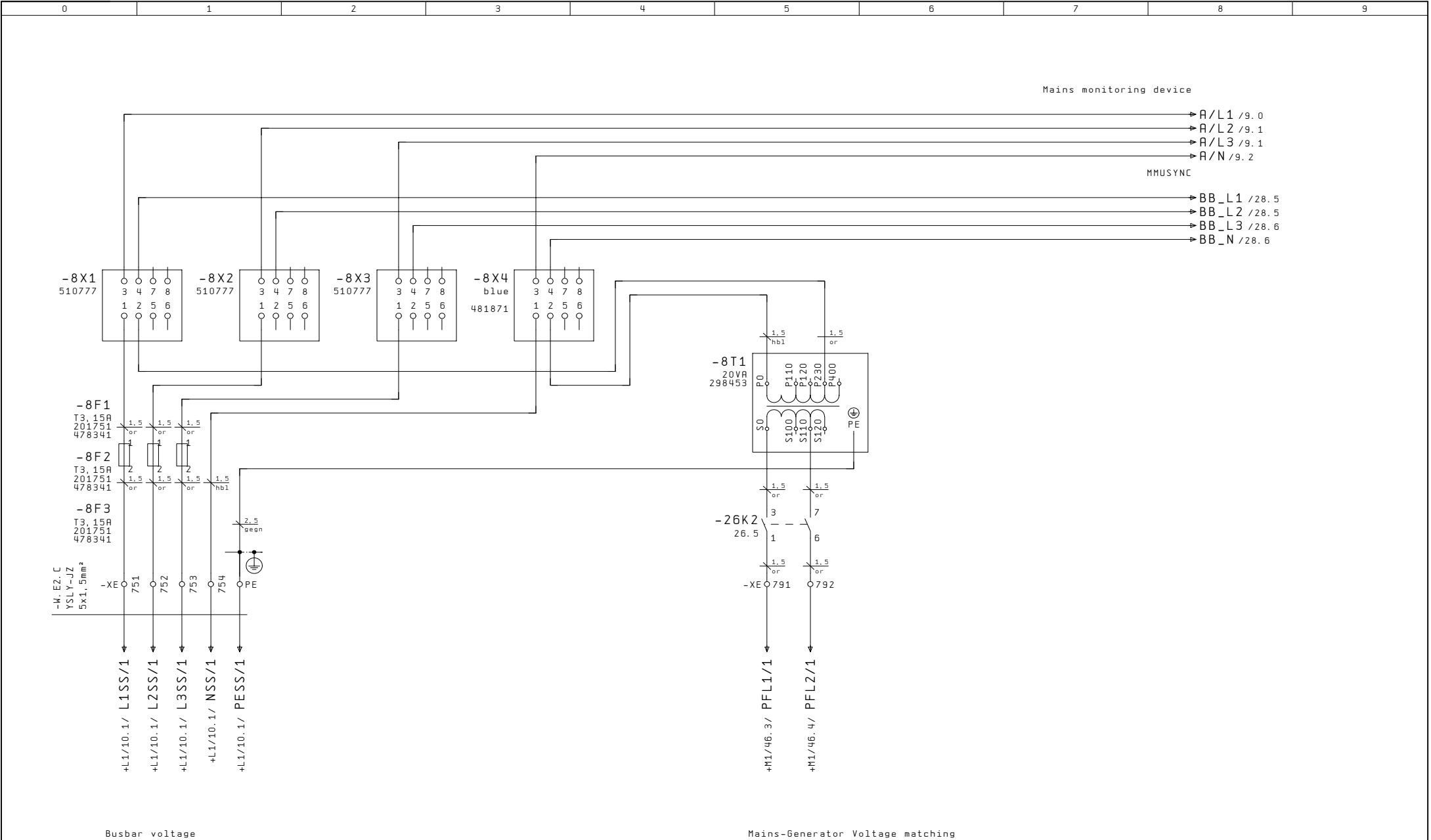


Fan



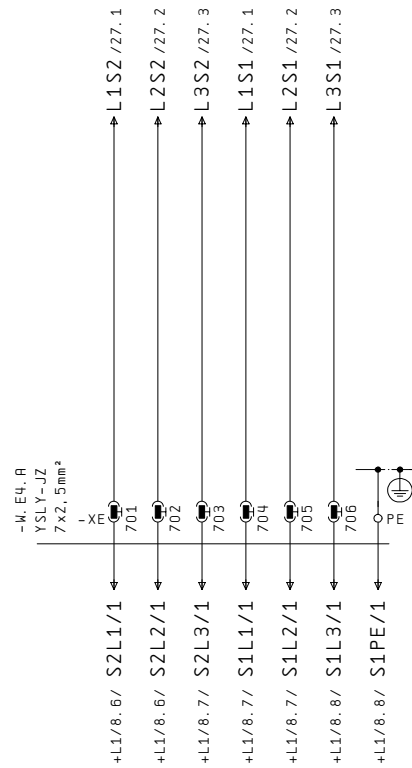






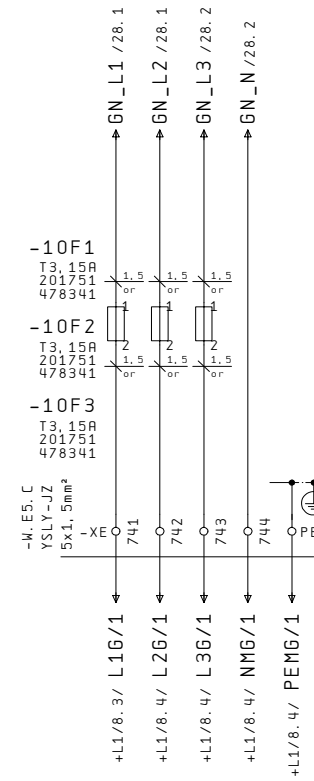
7										9																	
a						Date	21.08.07		1 x JMS 208 GS-N.LC		 <b>GE Jenbacher</b>		Voltage selection				J E233		Project				Suffix				
						Desig.	Perktold																				
						Print	11.10.07		Sportareal Ceska Lipa																		
Modific.		Date		Name		Check		DIR: J:\EPLAN\4\P\AN\LAGEN\EXXX\E2XX\JE233.P		<b>EPLAN 5</b>						J E233		Wiring diagram		Group		+ A1		Page		8	



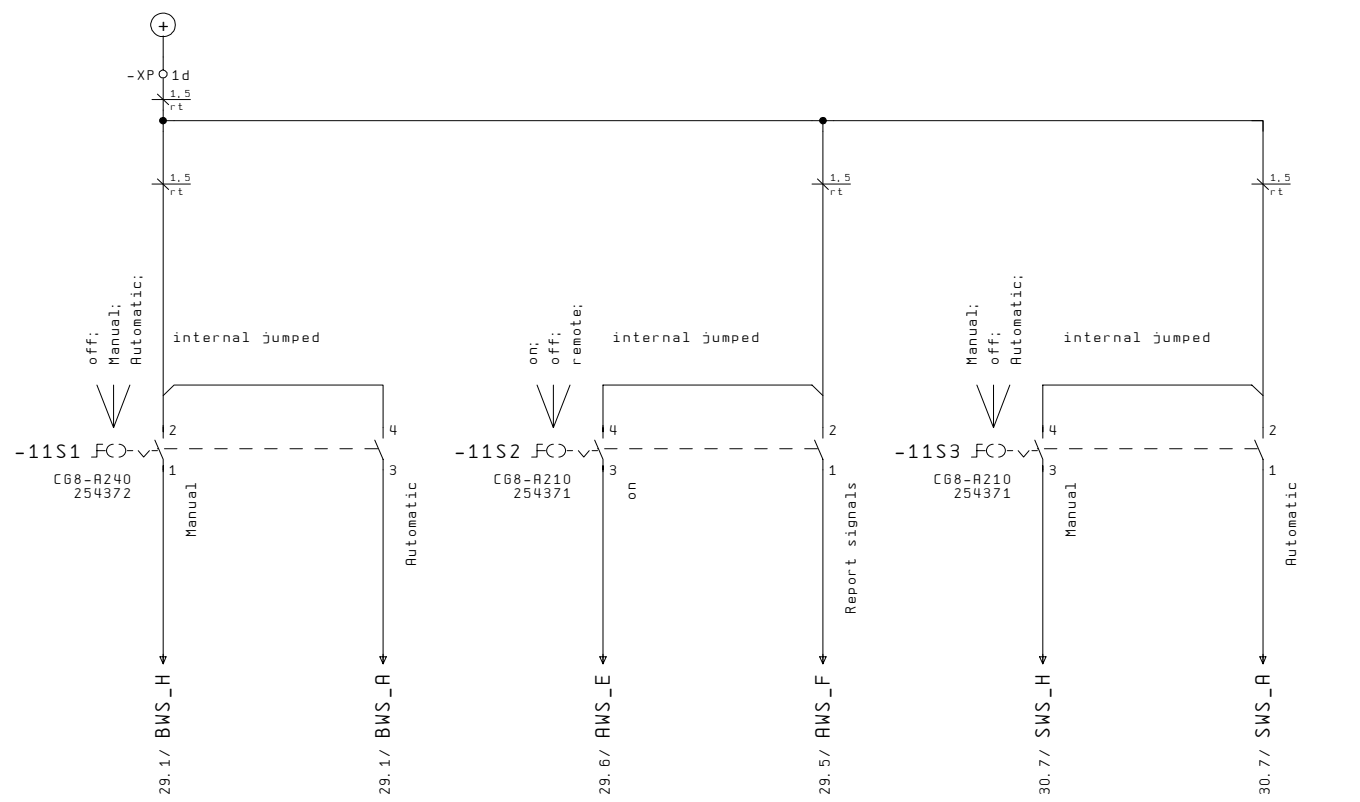


800/5A

Generator current



Generator voltage



Service selector  
switch Manual

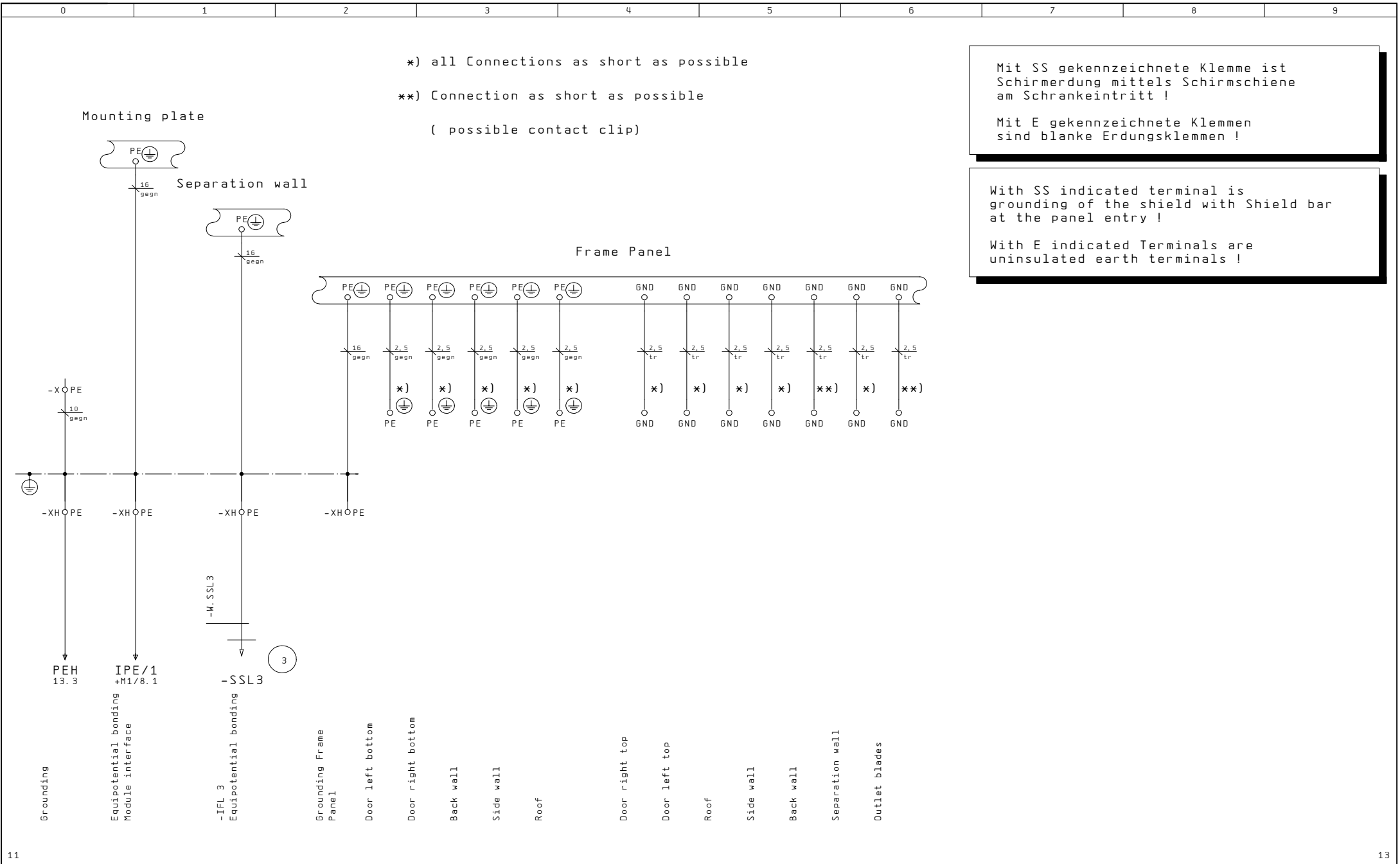
Service selector  
switch Automatic

Demand  
Selector switch  
on

Demand  
Selector switch  
remote

SY-Selector switch  
Manual

SY-Selector switch  
Automatic

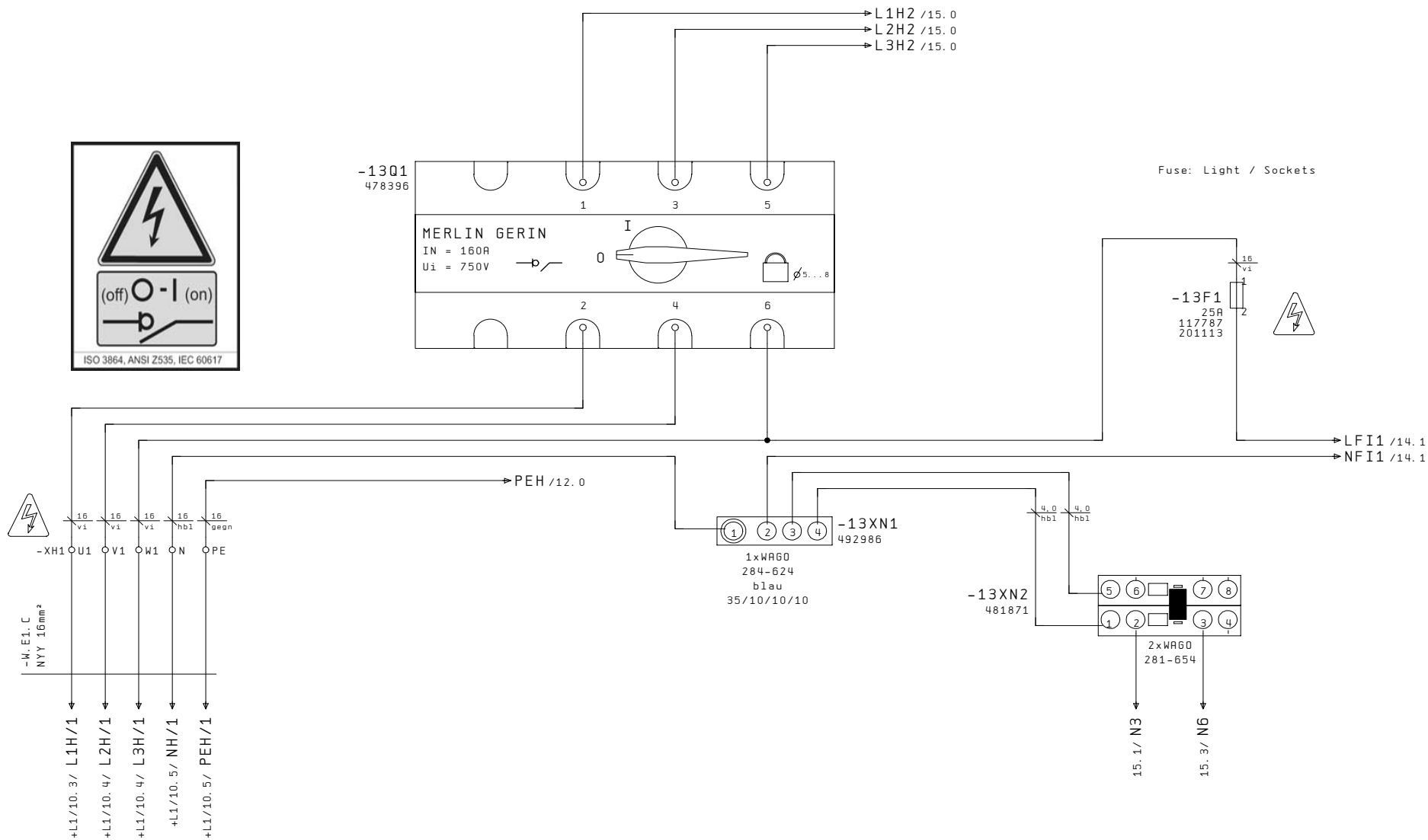


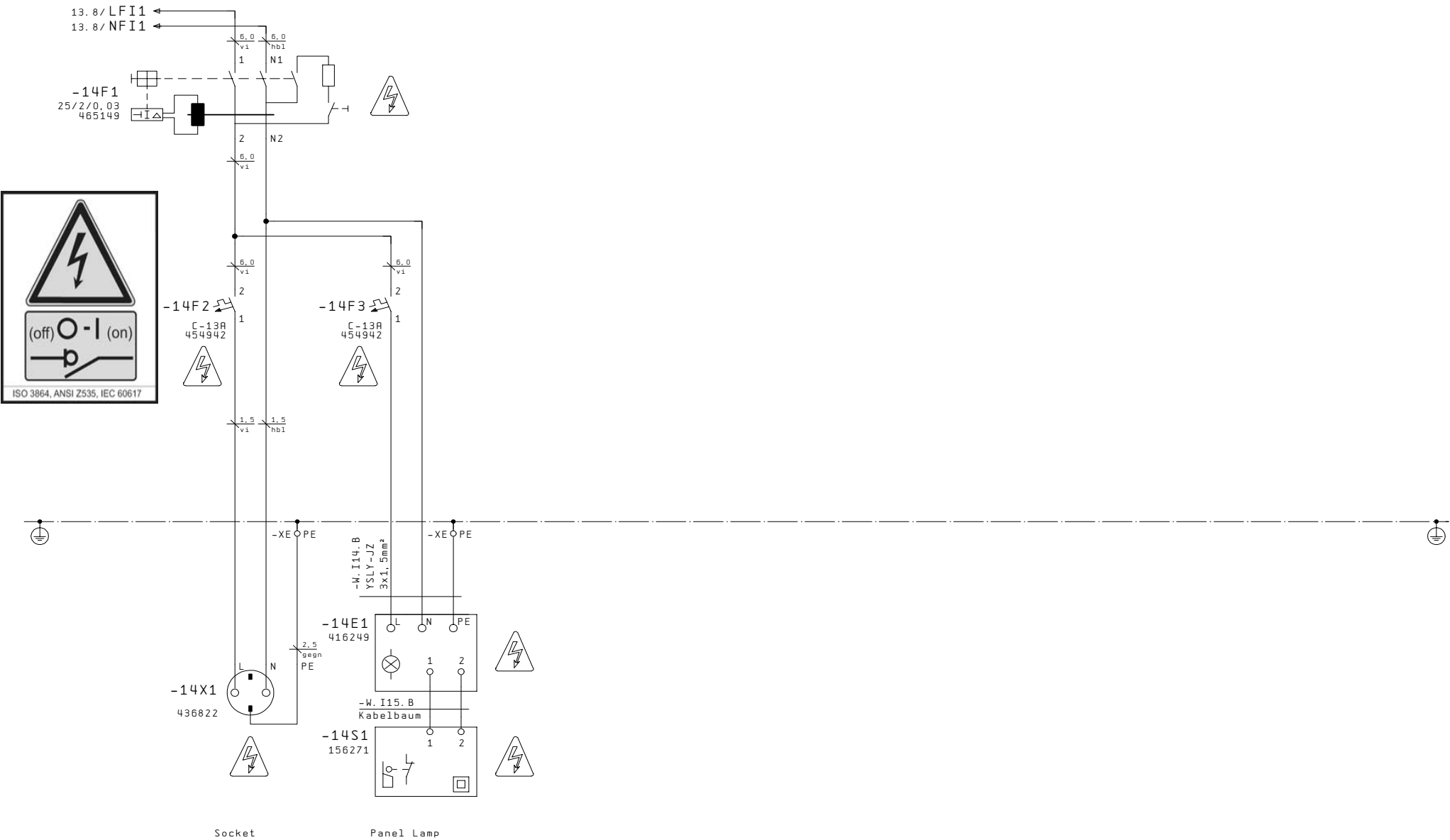
Mit SS gekennzeichnete Klemme ist Schirmerdung mittels Schirmschiene am Schrankeintritt !

Mit E gekennzeichnete Klemmen sind blanke Erdungsklemmen !

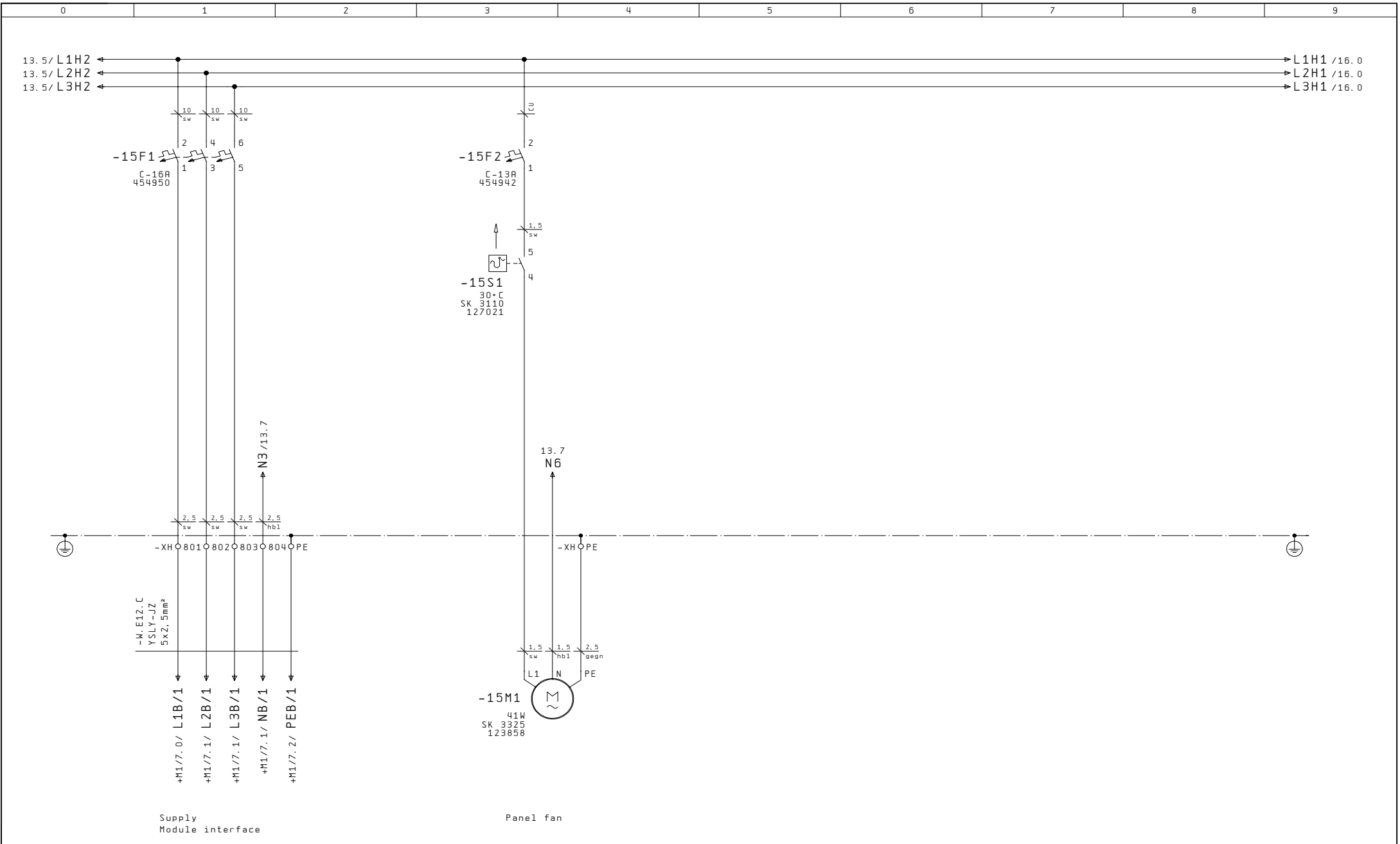
With SS indicated terminal is grounding of the shield with Shield bar at the panel entry !

With E indicated Terminals are uninsulated earth terminals !

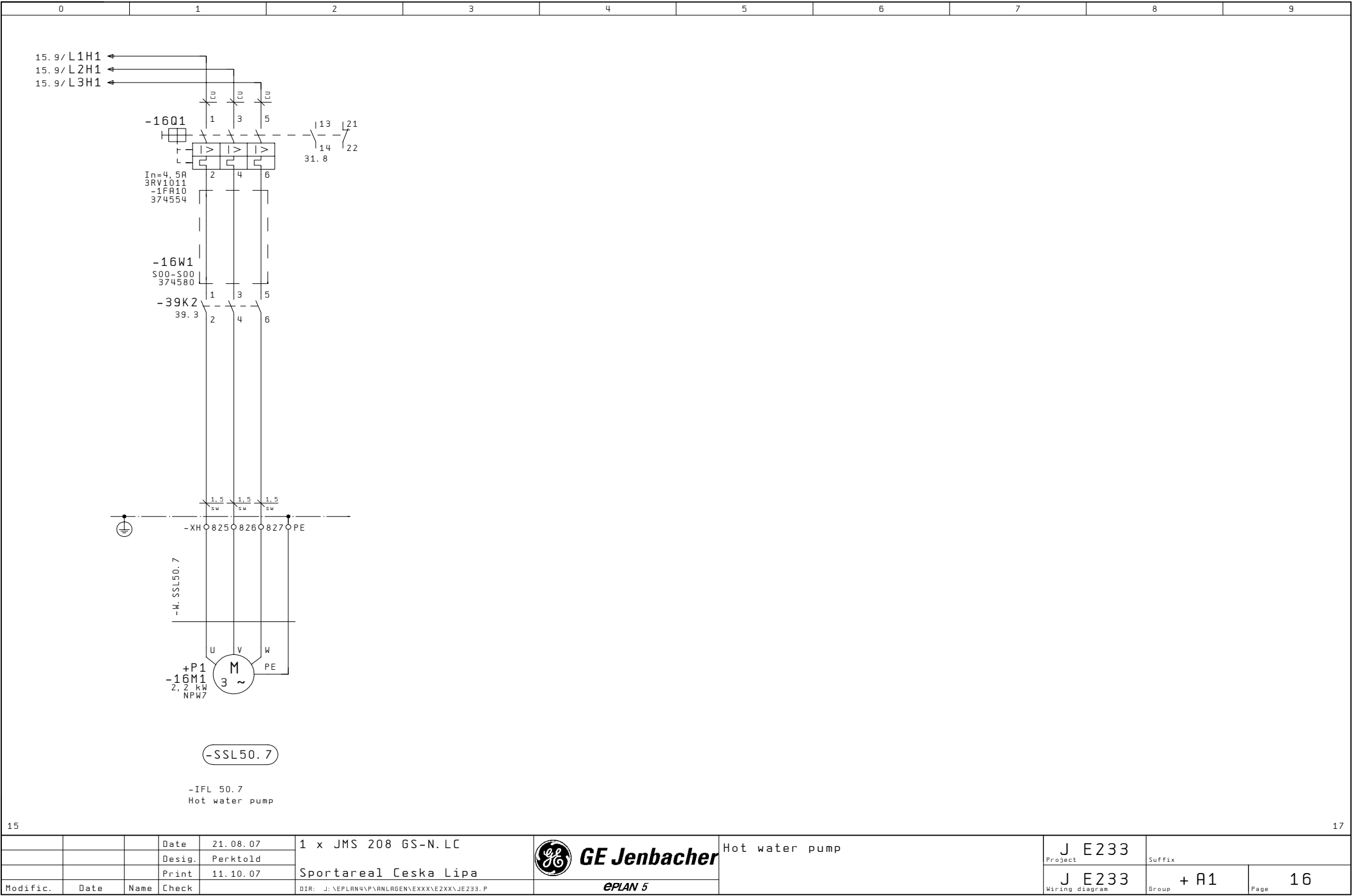




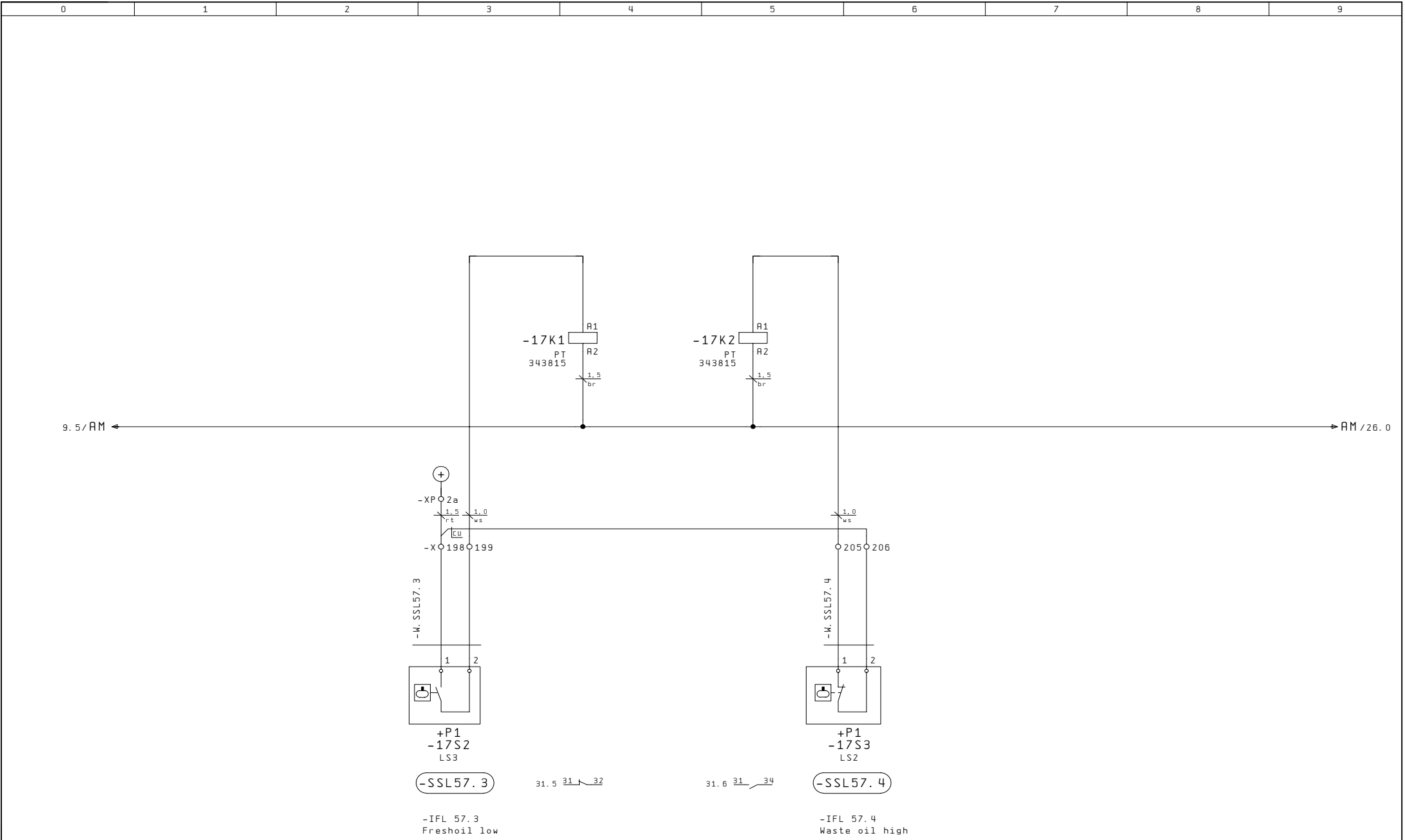




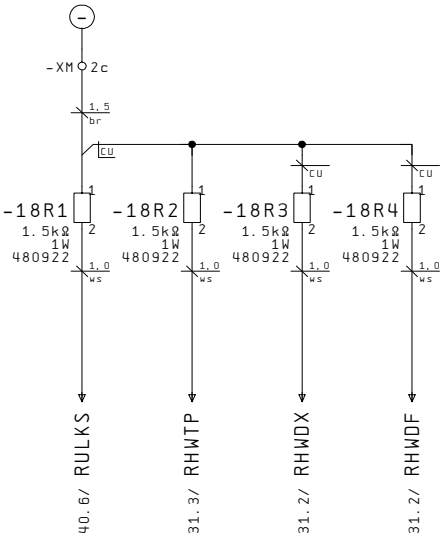
14														16													
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Supply Auxiliaries						J E233		Suffix												
			Desig.	Perktold																							
			Print	11.10.07	Sportareal Ceska Lipa									J E233		Group + A1		Page 15									
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P		EPLAN 5								Wiring diagram													



			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Hot water pump	J E233			
			Desig.	Perktold					Project	Suffix	
			Print	11.10.07				Sportareal Ceska Lipa	J E233	+ A1	16
Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	<b>EPLAN 5</b>		Wiring diagram	Group	Page	



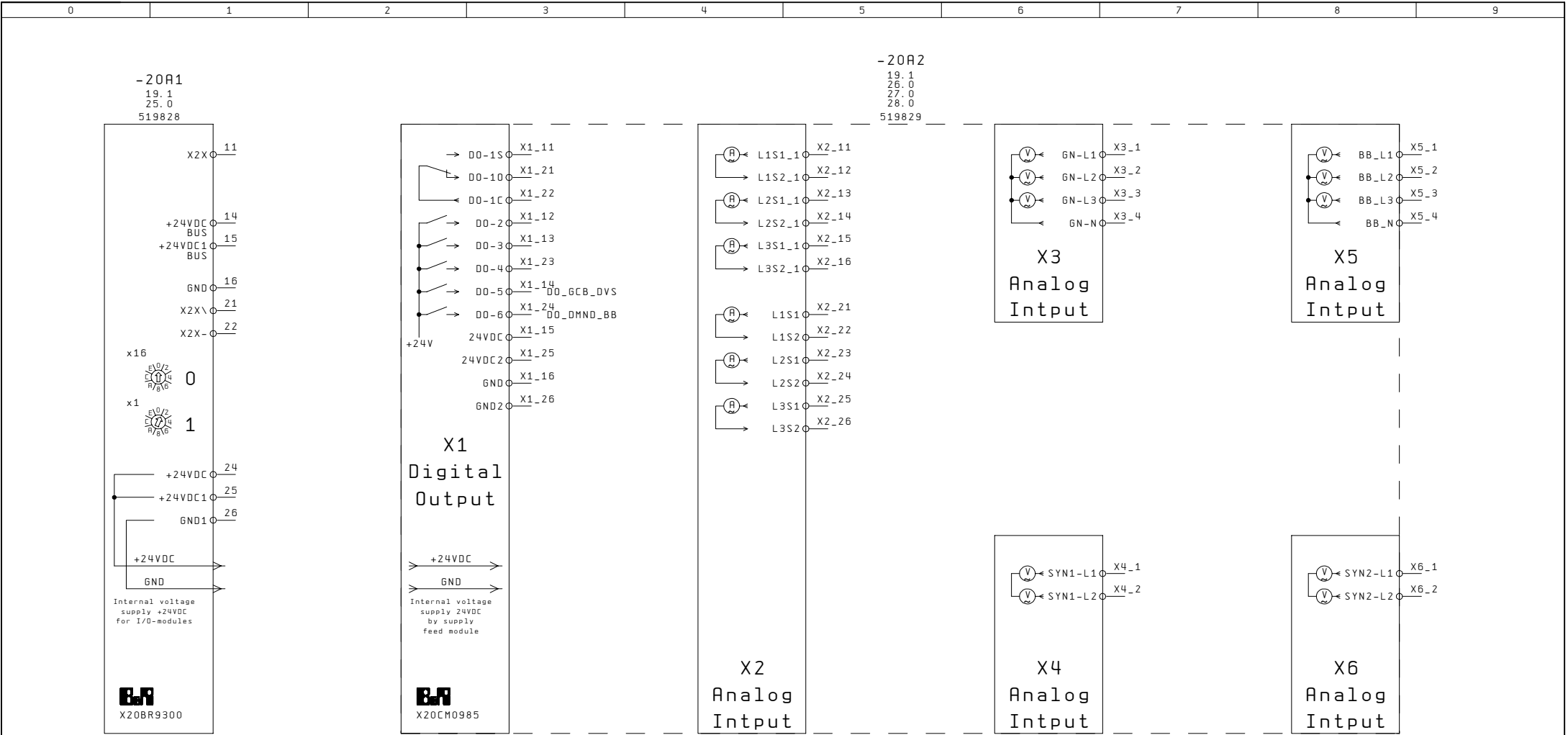
		Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Control: Oil pump	J E233	Suffix	
		Desig.	Perktold	Sportareal Ceska Lipa			Project		
		Print	11.10.07	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P			J E233	Group	+ A1
Modific.	Date	Name	Check		EPLAN 5		Wiring diagram	Page	17



Resistor - Digital Input

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Resistors	J E233		
			Desig.	Perktold				Project	Suffix	
			Print	11.10.07	Sportareal Ceska Lipa			J E233		
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P		EPLAN 5	Wiring diagram	Group	+ A1	Page 18



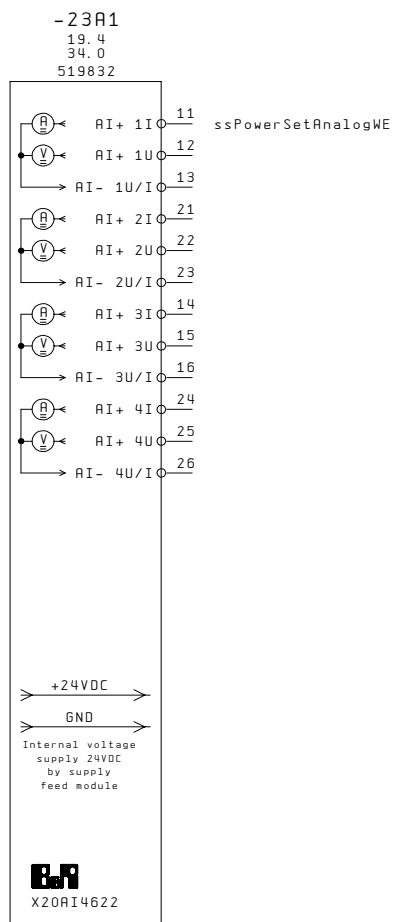


			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Slot address Over view	J E233			
			Desig.	Perktold				Project		Suffix	
			Print	11.10.07				Sportareal Ceska Lipa		J E233	
Modific.	Date	Name	Check		DIR: J:\EPLAN4\PLAN\LAGEN\EXXX\E2XX\JE233.P	<b>EPLAN 5</b>		Wiring diagram	Group	+ A1	Page 20

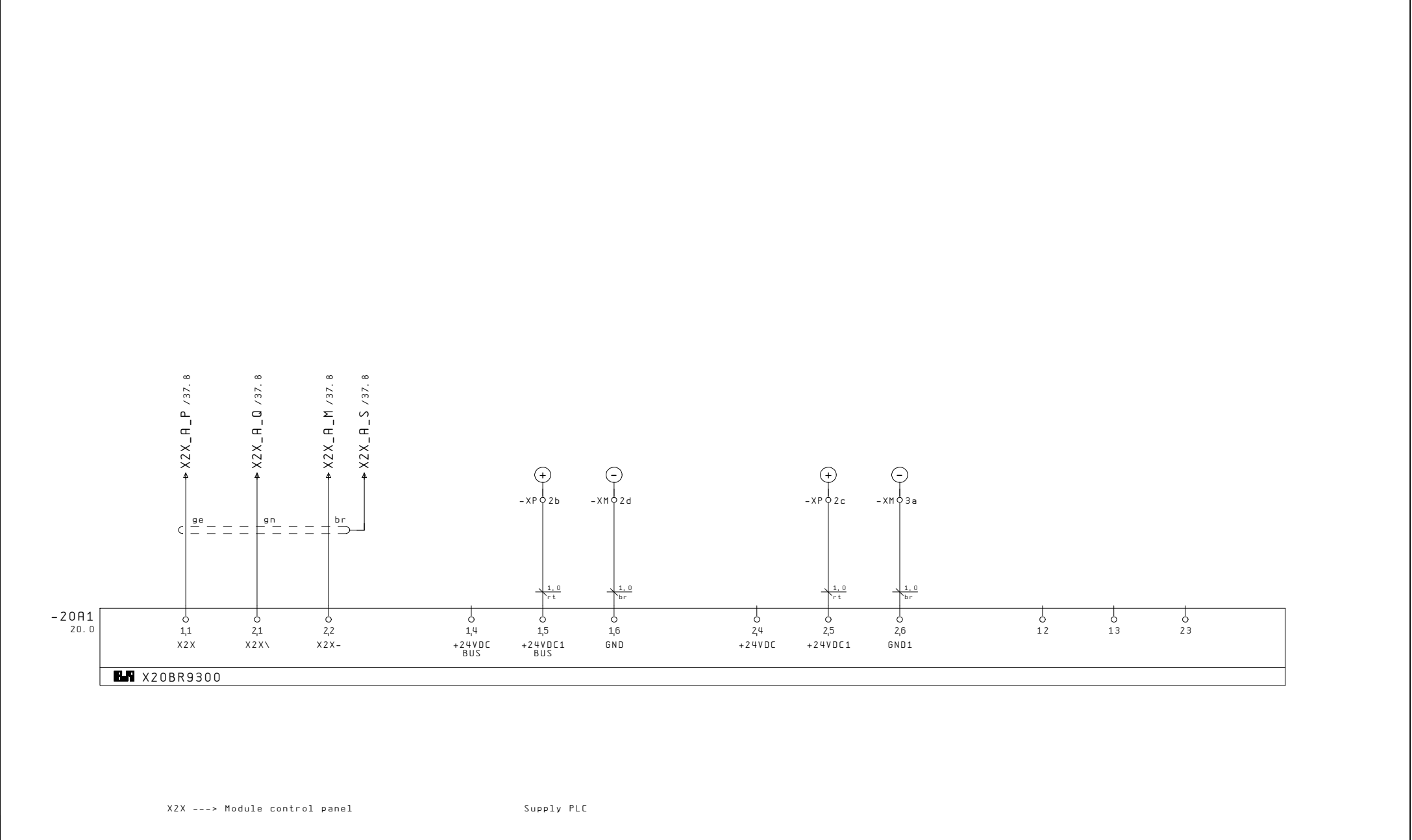




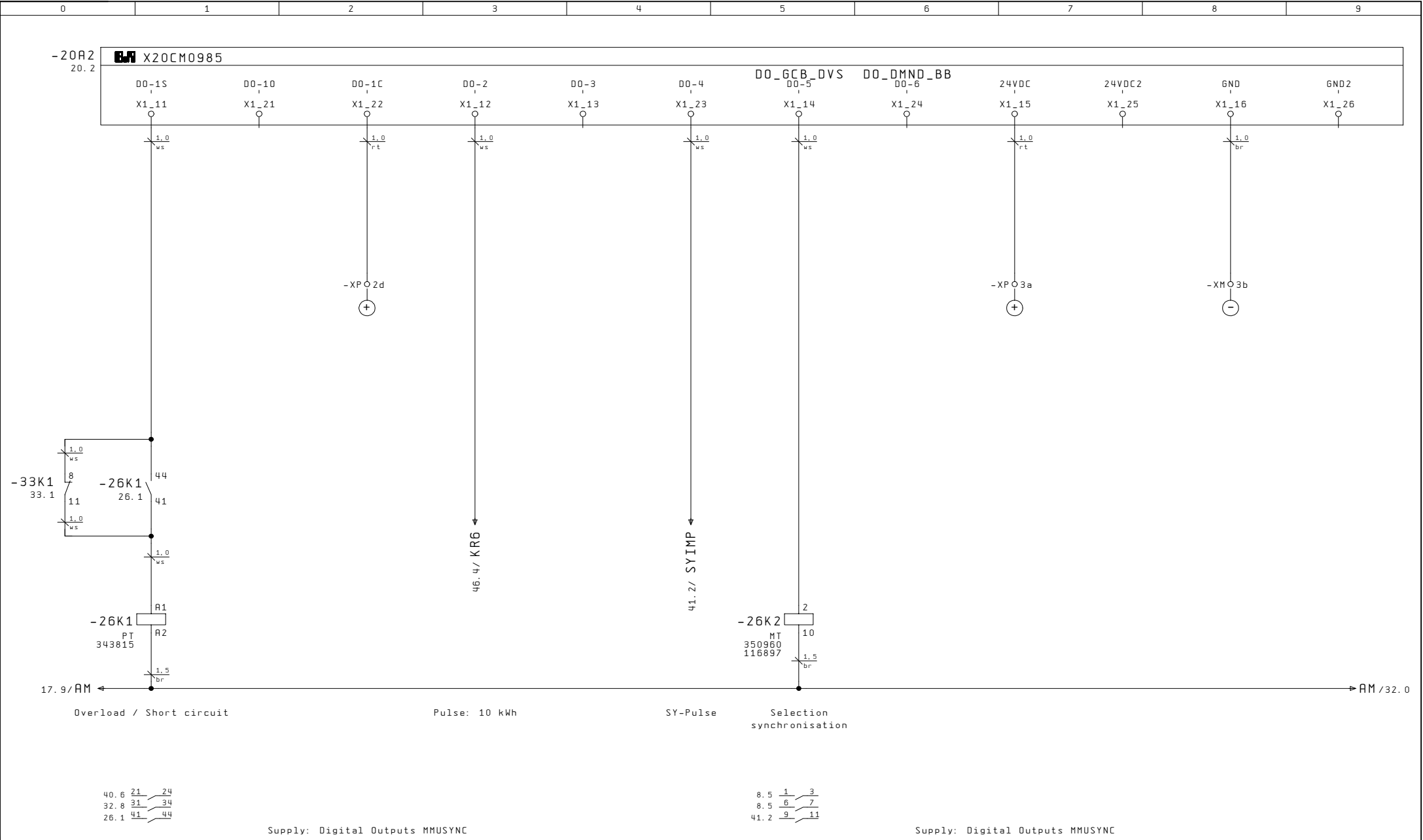






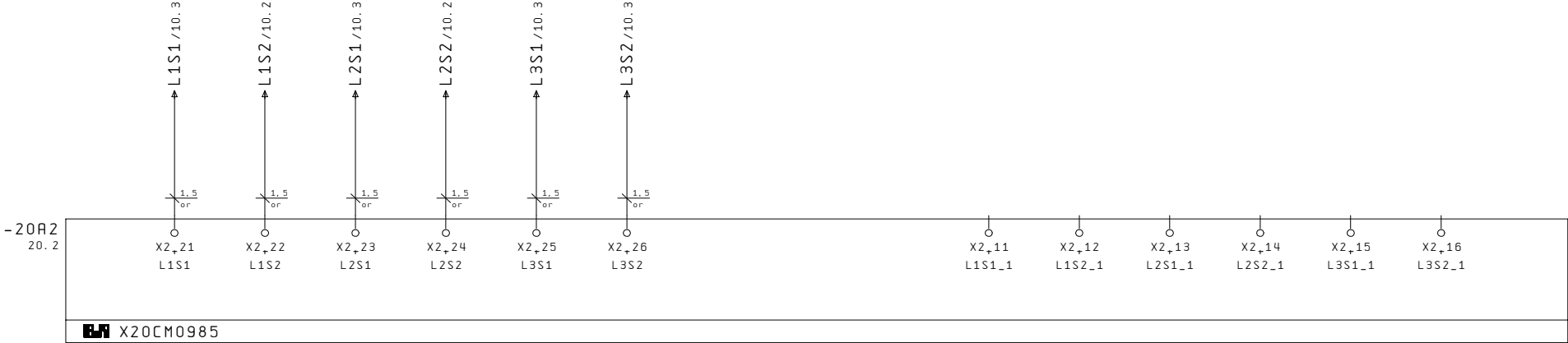


			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	BUS-RECEIVER	J E233			
			Desig.	Perktold				Project		Suffix	
			Print	11.10.07				Sportareal Ceska Lipa			
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\VP\ANLAGEN\EXXX\E2XX\JE233.P				EPLAN 5		J E233	+ A1
								Wiring diagram		Group	Page

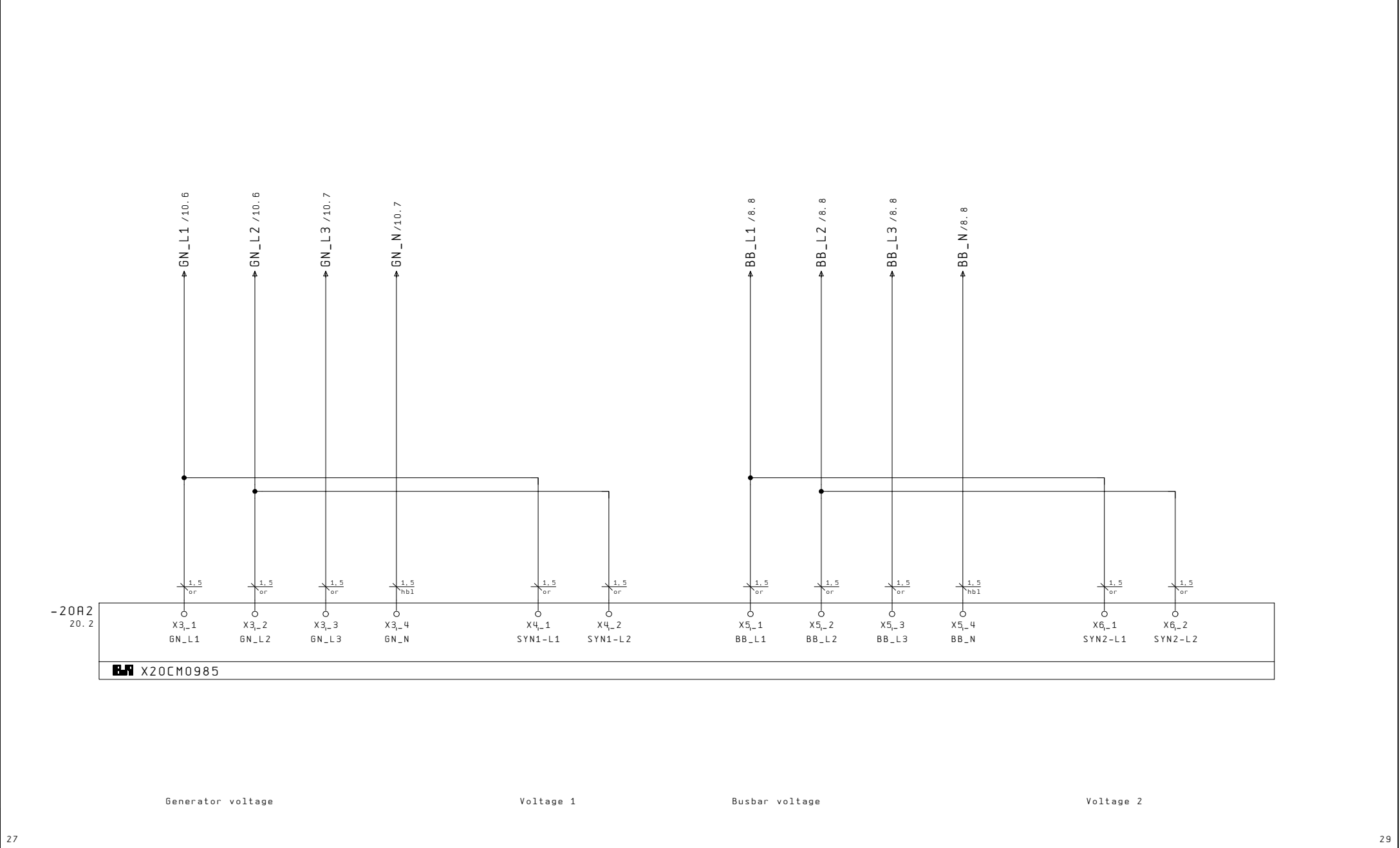


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			Desig.	Perktold					J E233		Wiring diagram		Group + A1	
			Print	11.10.07	Sportareal Ceska Lipa							Page 26		
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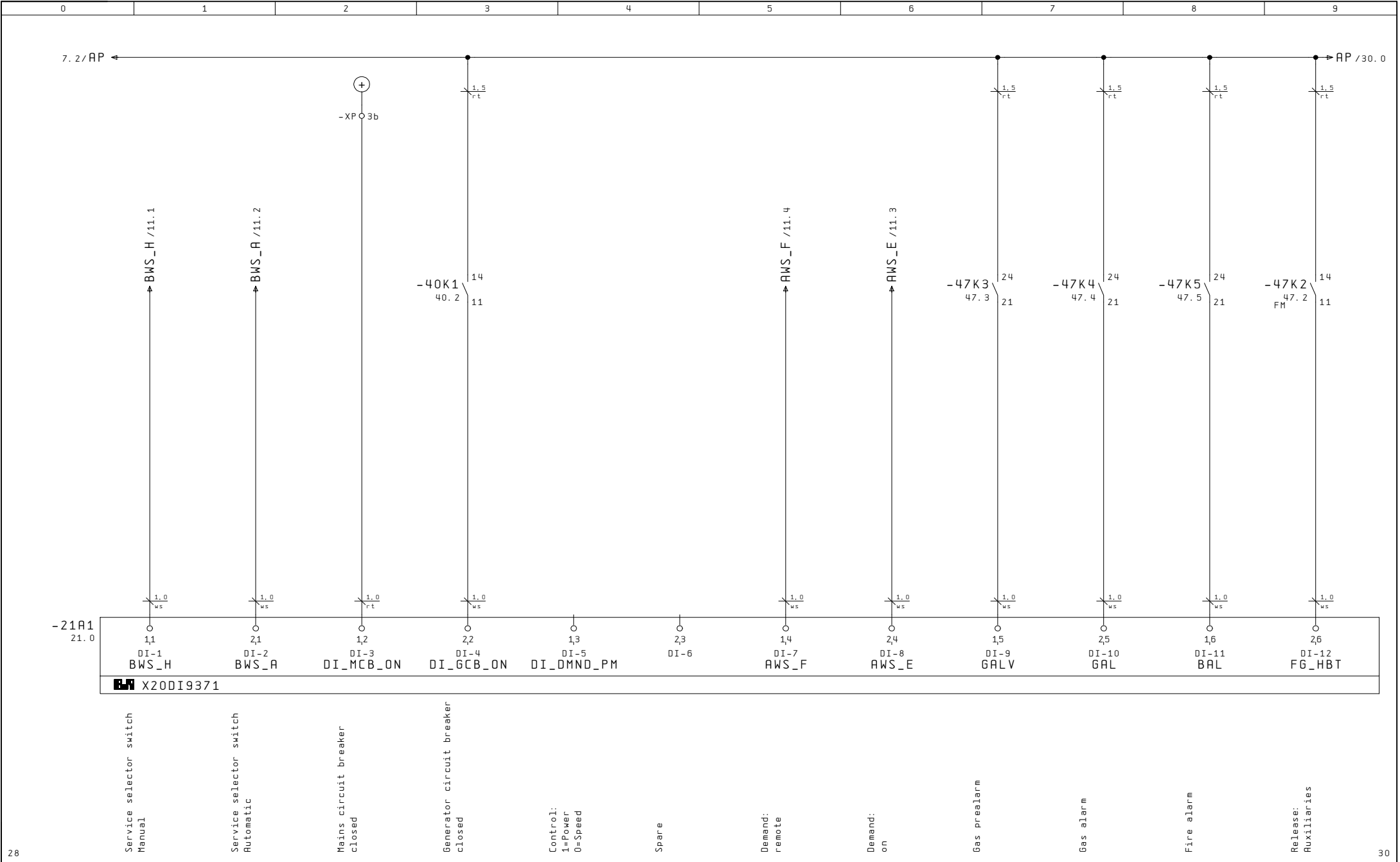
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Generator current

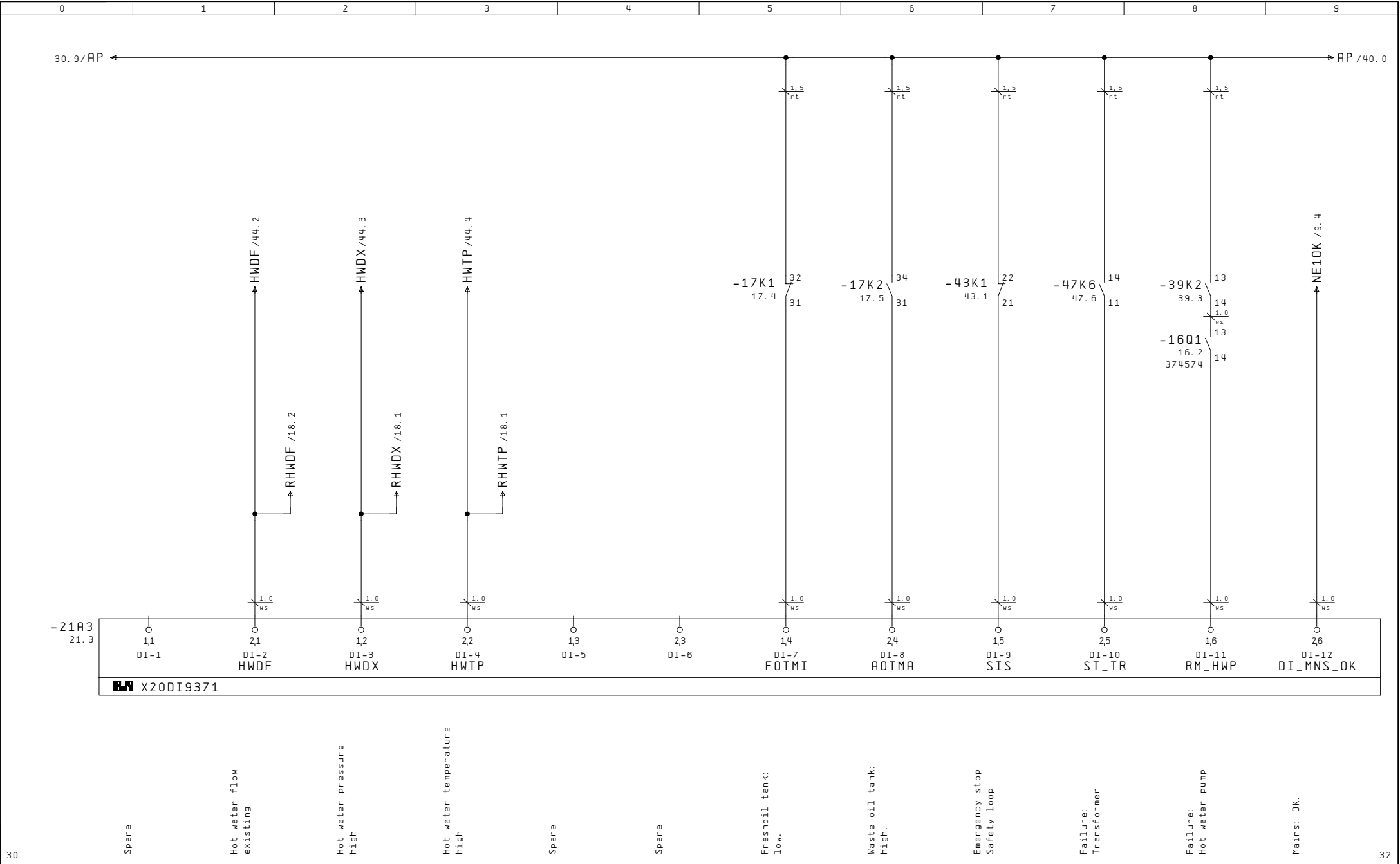


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			Desig.	Perktold				Project	Suffix			
			Print	11.10.07	Sportareal Ceska Lipa			J E233		+ A1		28
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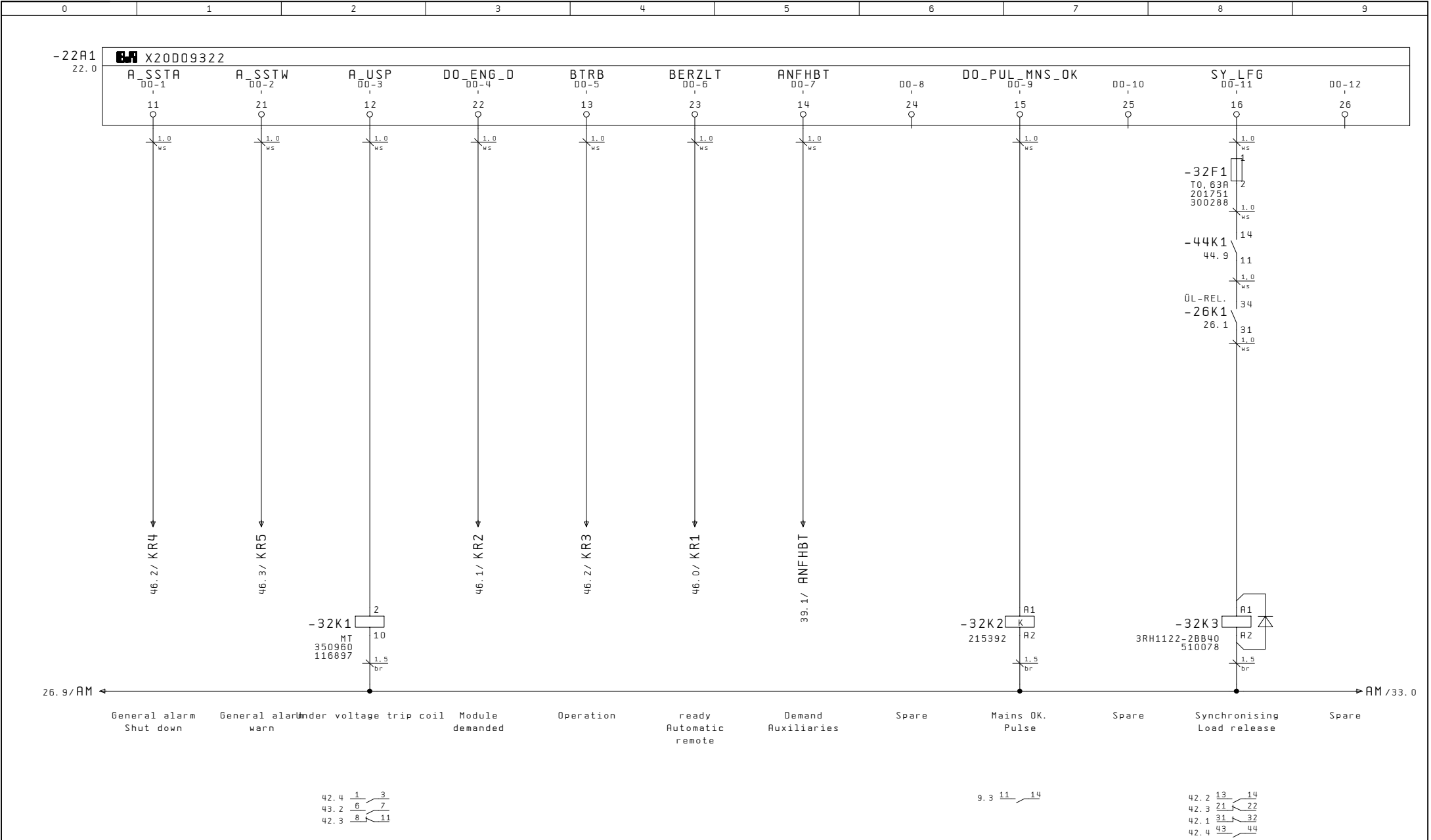




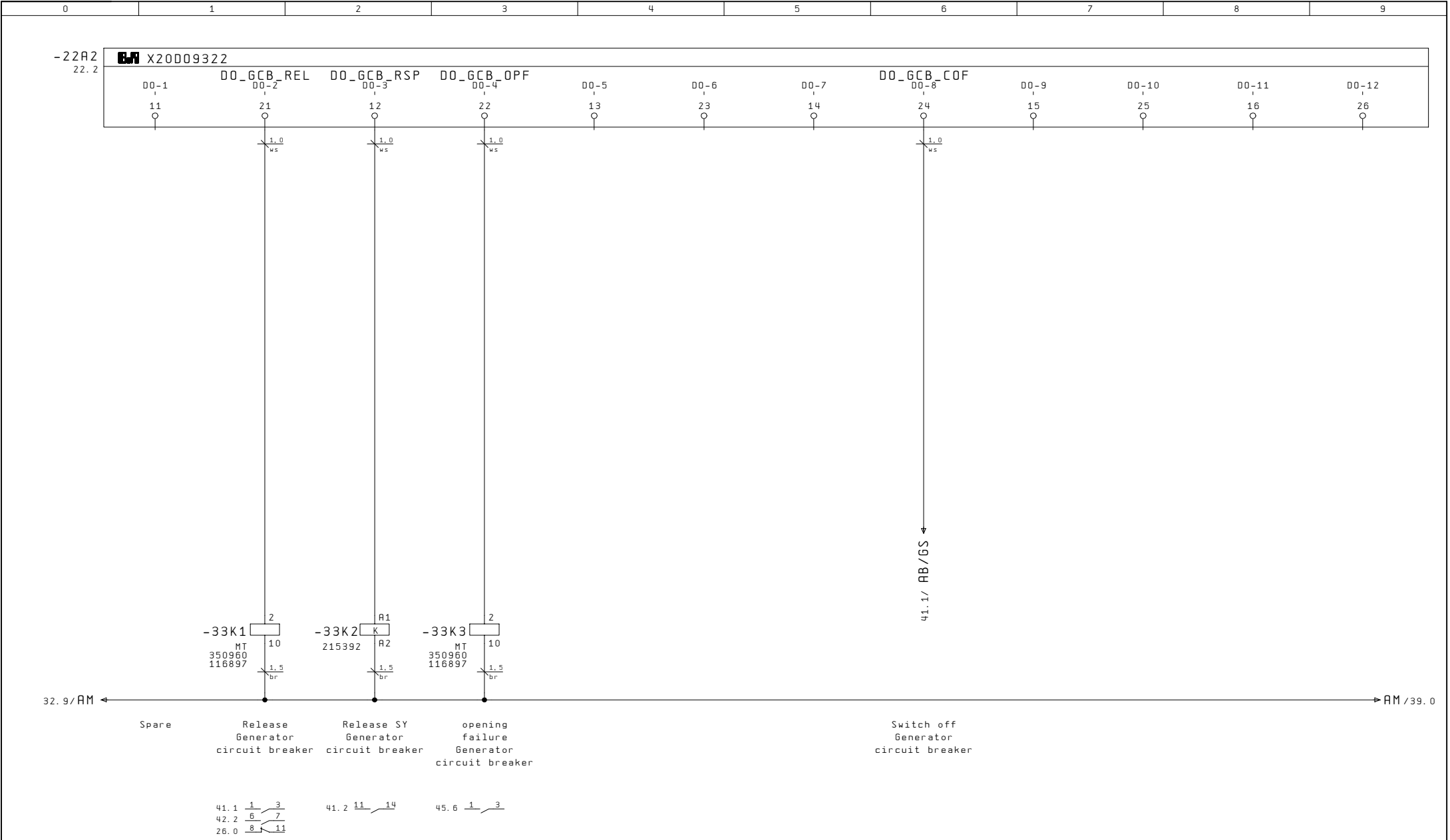


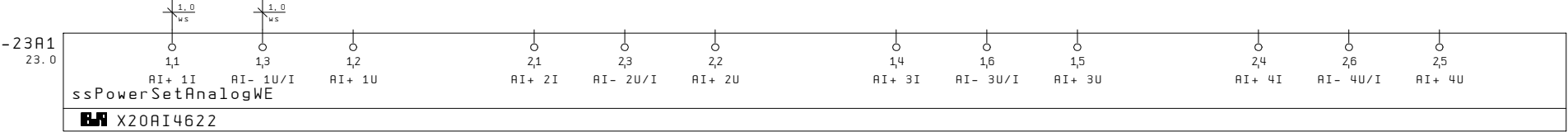
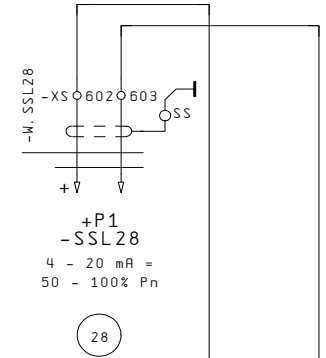


30				32			
Spare				Freshoil tank: low.			
Hot water flow existing				Waste oil tank: high.			
Hot water pressure high				Emergency stop Safety loop			
Hot water temperature high				Failure: Transformer			
Spare				Failure: Hot water pump			
Spare				Mains: OK.			
1 x JMS 208 GS-N.LC				Digital Inputs			
Sportareal Ceska Lipa				J E233			
DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P				J E233			
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			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Digital Outputs	J E233					
			Desig.	Perktold				Project		Suffix			
			Print	11.10.07				Sportareal Ceska Lipa		J E233			
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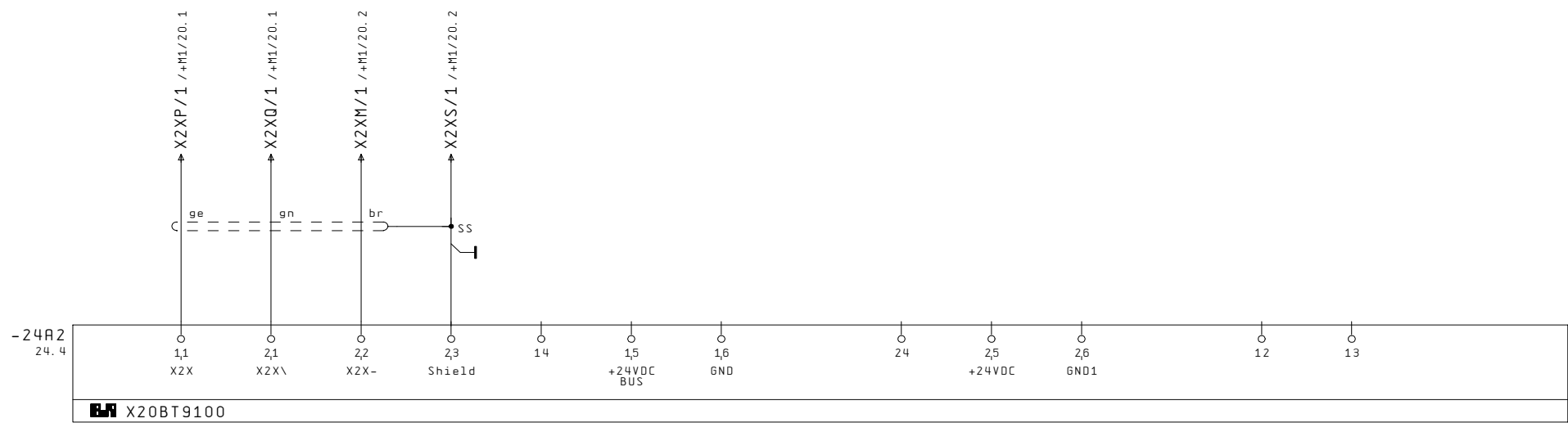




-IFL 28  
External Set point power



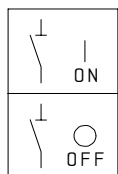
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X2X ----> Module interface

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		Desig.	Perktold	Sportareal Ceska Lipa			Project		
		Print	11.10.07	DIR: J:\EPLAN4\PLANLAGE\EXXX\E2XX\JE233.P			J E233	Group	+ A1
Modific.	Date	Name	Check		EPLAN 5		Wiring diagram	Page	36

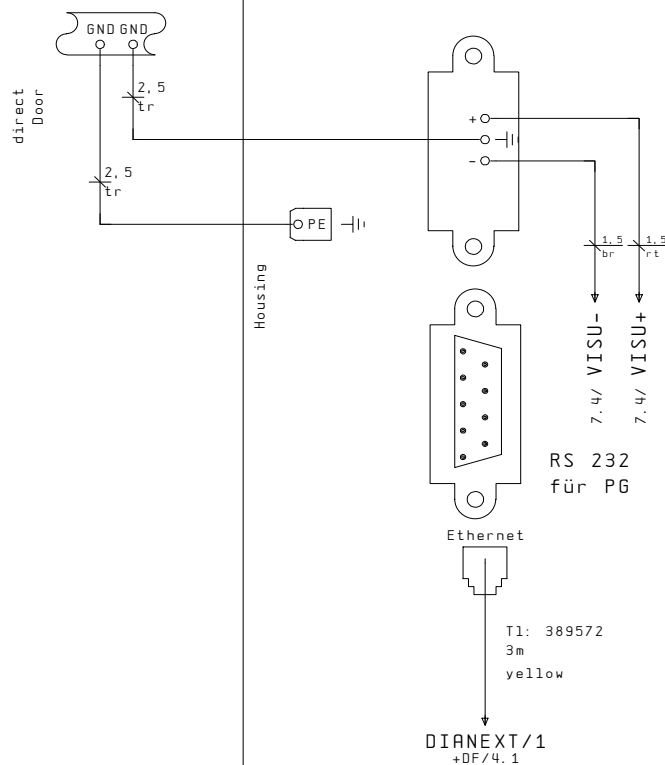
-37A1  
diagnose  
373180



# DISPLAY

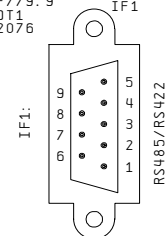
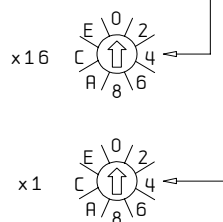
-37A2  
64MB Flash  
454541

-37A3 RXD TXD  
3IF779.9 IF1  
SLOT1  
442076

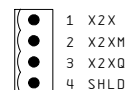
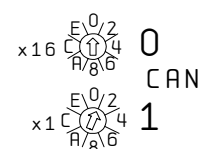


Engine Number:

- 1 = 0B
- 2 = 0C
- 3 = 0D
- 4 = 0E
- 5 = 0F
- 6 = 10
- 7 = 11
- 8 = 12
- 9 = 13
- 10 = 14



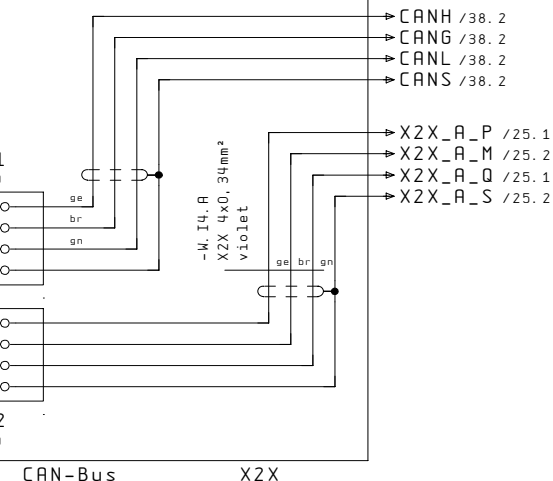
CAN 0 X2X




-37X1  
525630

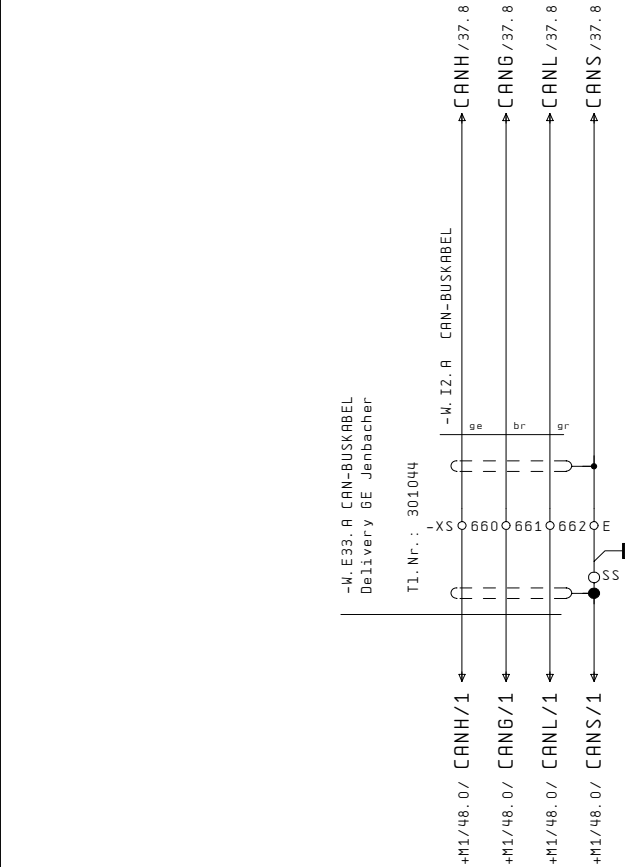


-37X2  
525630



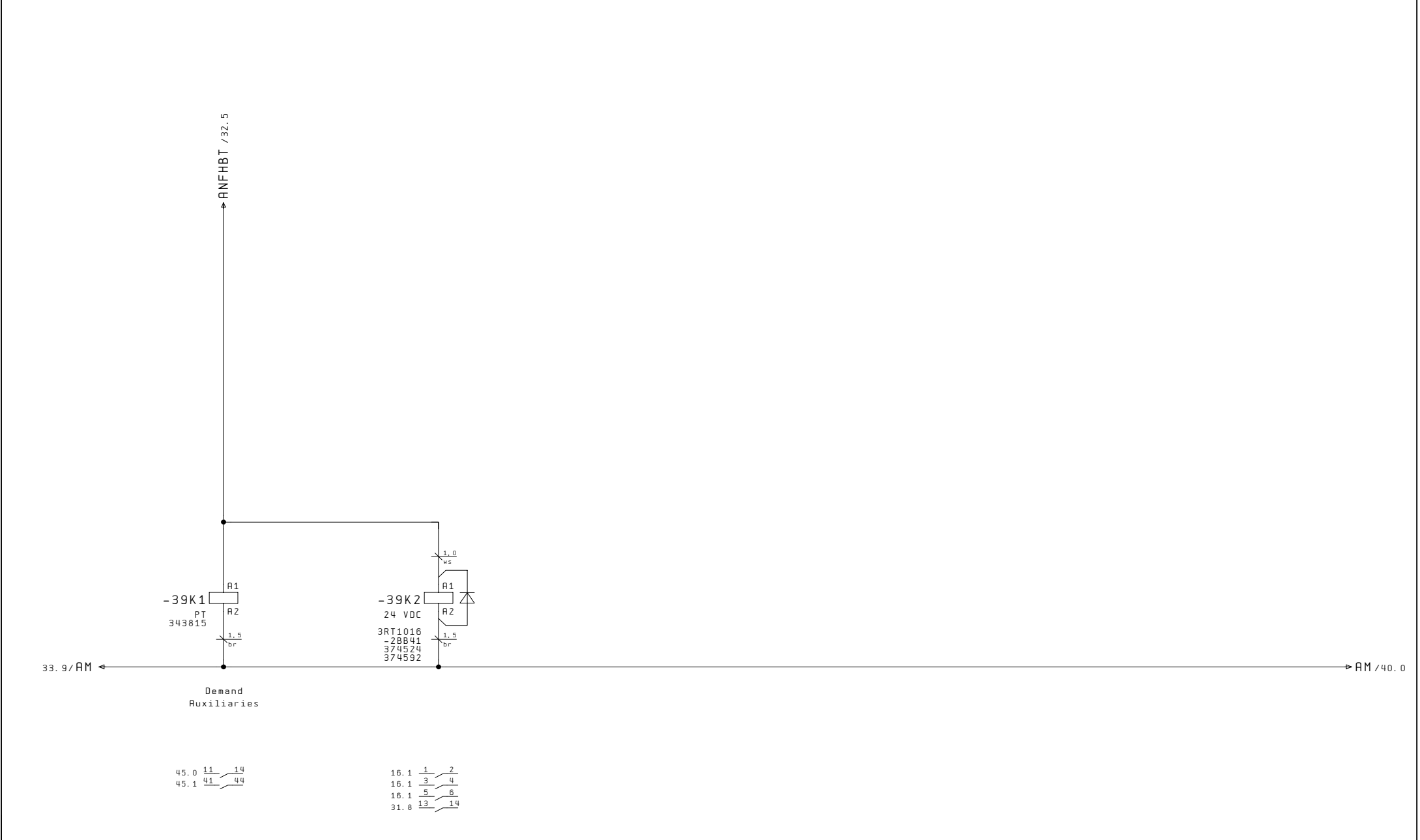
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			Desig.	Perktold				Project					
			Print	11.10.07				Sportareal Ceska Lipa		J E233			
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE2XX\JE233.P		EPLAN 5		Wiring diagram		Group	+ A1		Page

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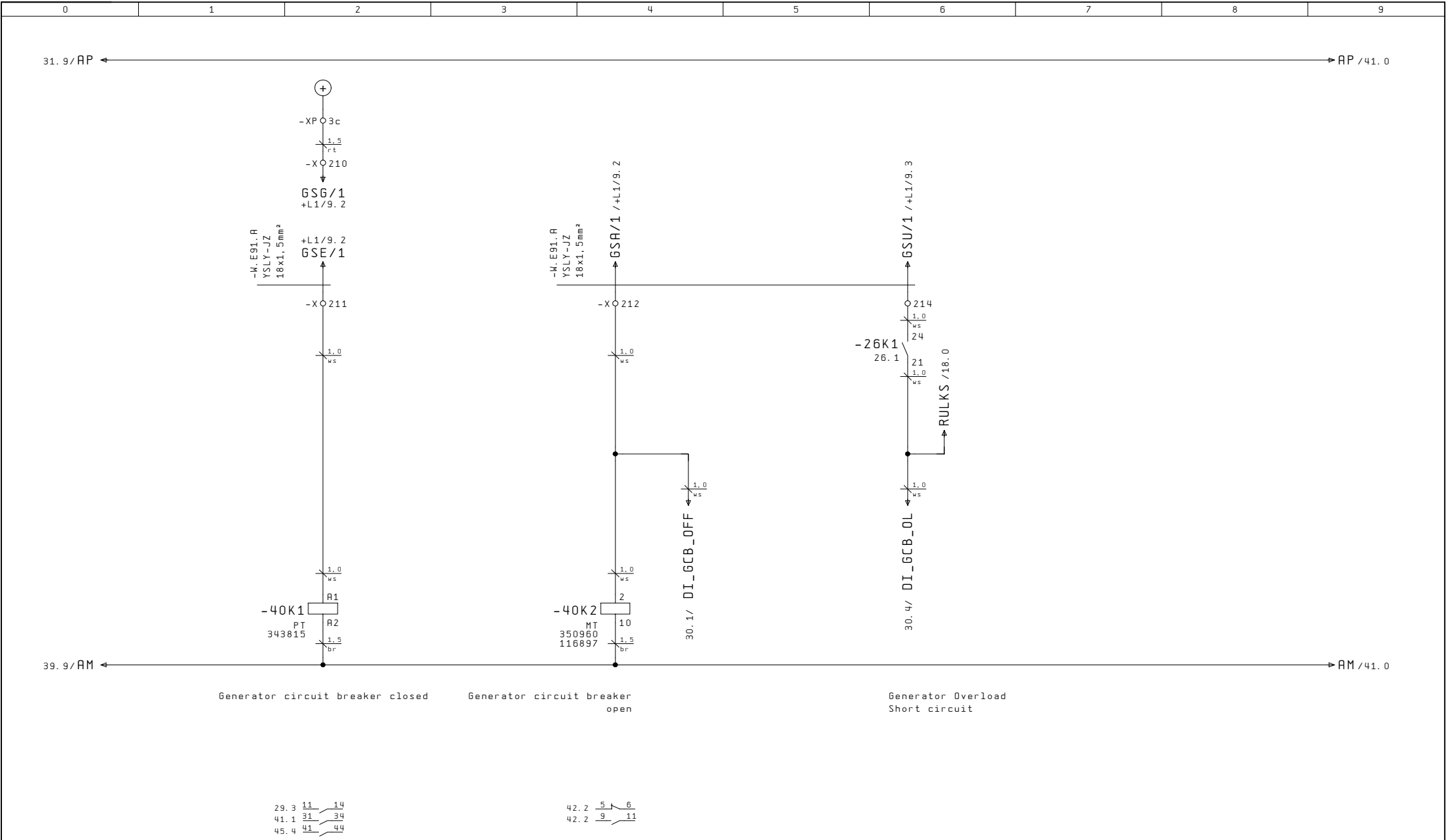


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			Desig.	Perktold							
			Print	11.10.07	Sportareal Ceska Lipa				J E233	+ A1	
Modific.	Date	Name	Check		DIR: J:\EPLAN4\PA\NLAGEN\EXXX\E2XX\JE233.P	<i>ePLAN 5</i>		Wiring diagram	Group	Page	





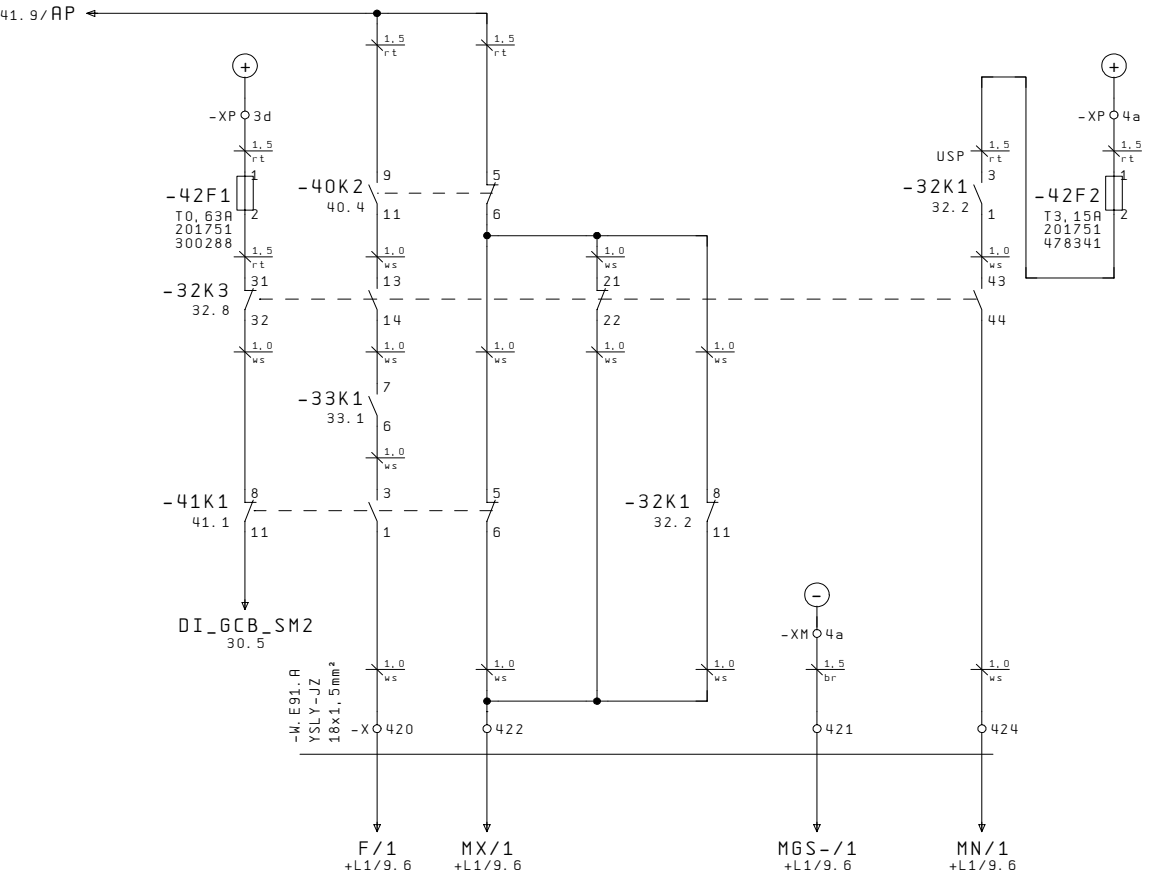
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Control Auxiliaries	J E233					
			Desig.	Perktold				Project		Suffix			
			Print	11.10.07				Sportareal Ceska Lipa		J E233			
Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	<i>EPLAN 5</i>		Wiring diagram		Group	+ A1	Page	39



39				41						
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Control Generator circuit breaker	J E233		
			Desig.	Perktold				Project	Suffix	
			Print	11.10.07	Sportareal Ceska Lipa			J E233	+ A1	40
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P		EPLAN 5	Wiring diagram	Group	Page	



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		Date	21.08.07	1 x JMS 208 GS-N.LC	<div>  <b>GE Jenbacher</b> </div> <div>Control Generator circuit breaker</div>	J E233	<div>Suffix</div> <div>+ A1</div>		42
		Desig.	Perktold	Sportareal Ceska Lipa		J E233			
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\AN\LAGEN\EXXX\E2XX\JE233.P	EPLAN 5	Wiring diagram	Group	Page	

+M1/41.2  
NOTÜ/1

-W.E81.A YSLY-JZ 5x2,5mm²

-XO152

-W.SSL39

-IFL 39

Emergency stop External

+P1

-43S4

-XO153

1 13

2 4

-43S1

415193

415194

415195

1.0

us

34

-47K5

47.5

Fire alarm

31

1.0

us

34

-47K4

47.4

31

1.0

us

7

A-USP

-32K1

32.2

6

1.0

us

br

-43K1

PT

343815

41.9/AM

Emergency stop

NOT+ 2

31.7 21 22

45.2 41 44

Emergency stop +M1

44

42

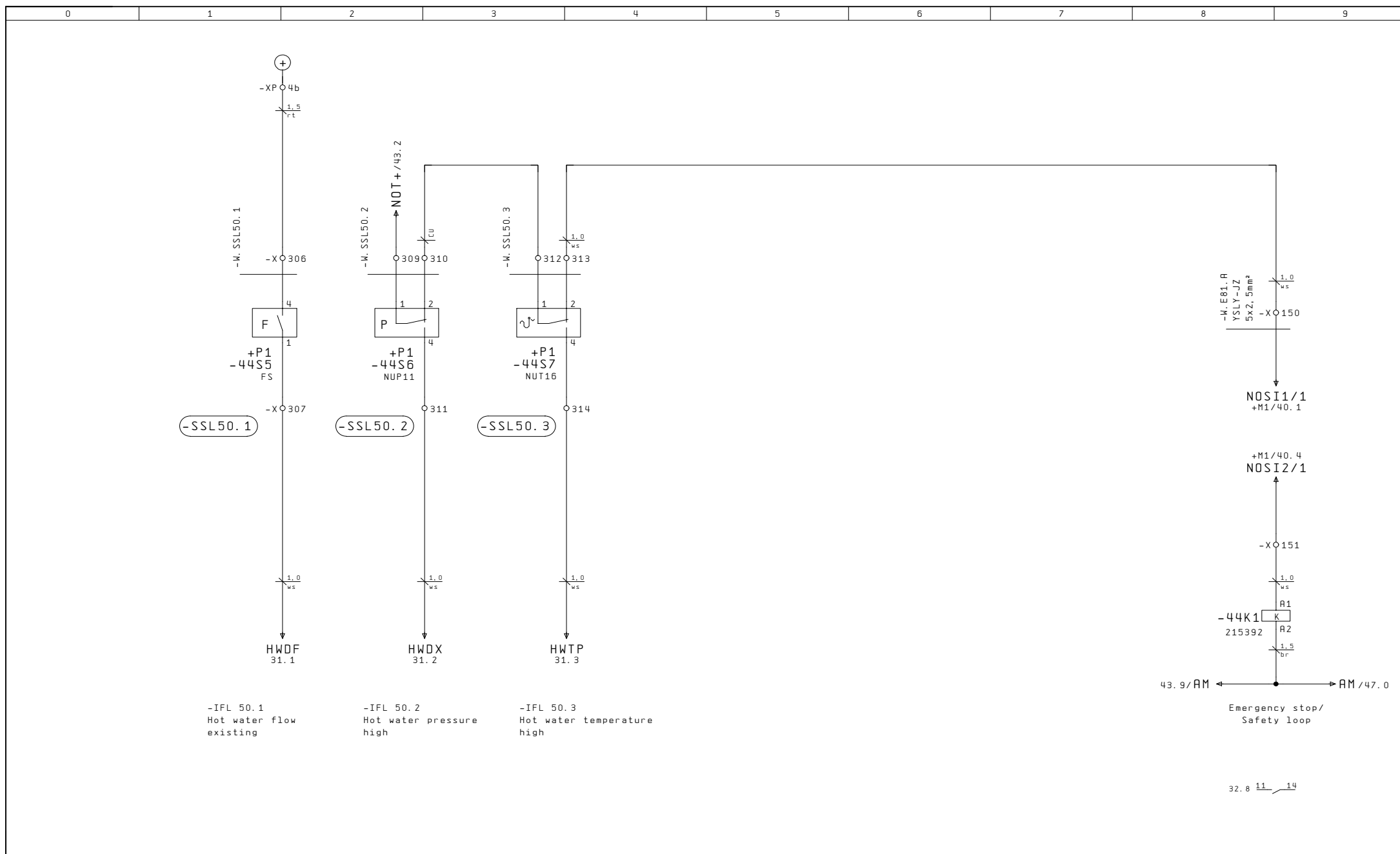
44


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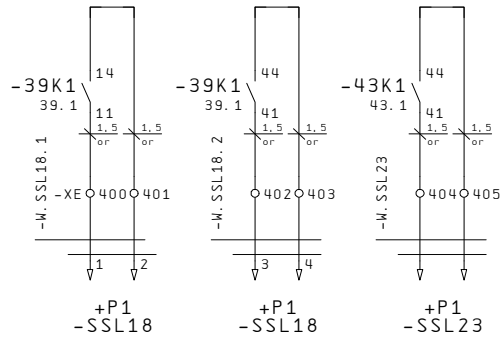
44

44

		Date	21.08.07	1 x JMS 208 GS-N.LC	Emergency stop	J E233	Suffix	
		Desig.	Perktold	Sportareal Ceska Lipa		J E233		
		Print	11.10.07	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P		Wiring diagram	Group	+ A1
Modific.	Date	Name	Check		EPLAN 5		Page	43

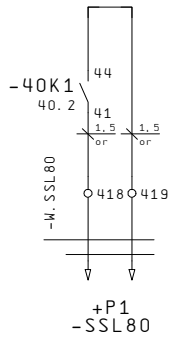


			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Monitoring: Hot water loop	J E233		Suffix		44
			Desig.	Perktold				Project				
			Print	11.10.07				Sportareal Ceska Lipa		J E233		
Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\JE233.P	EPLAN 5		Wiring diagram		Group	Page	



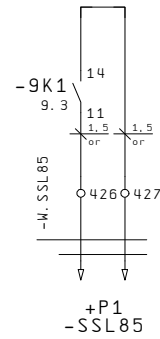
-IFL 18  
Demand Auxiliaries

18



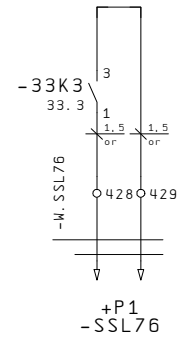
-IFL 80  
Generator circuit breaker closed

80



-IFL 85  
Mains failure

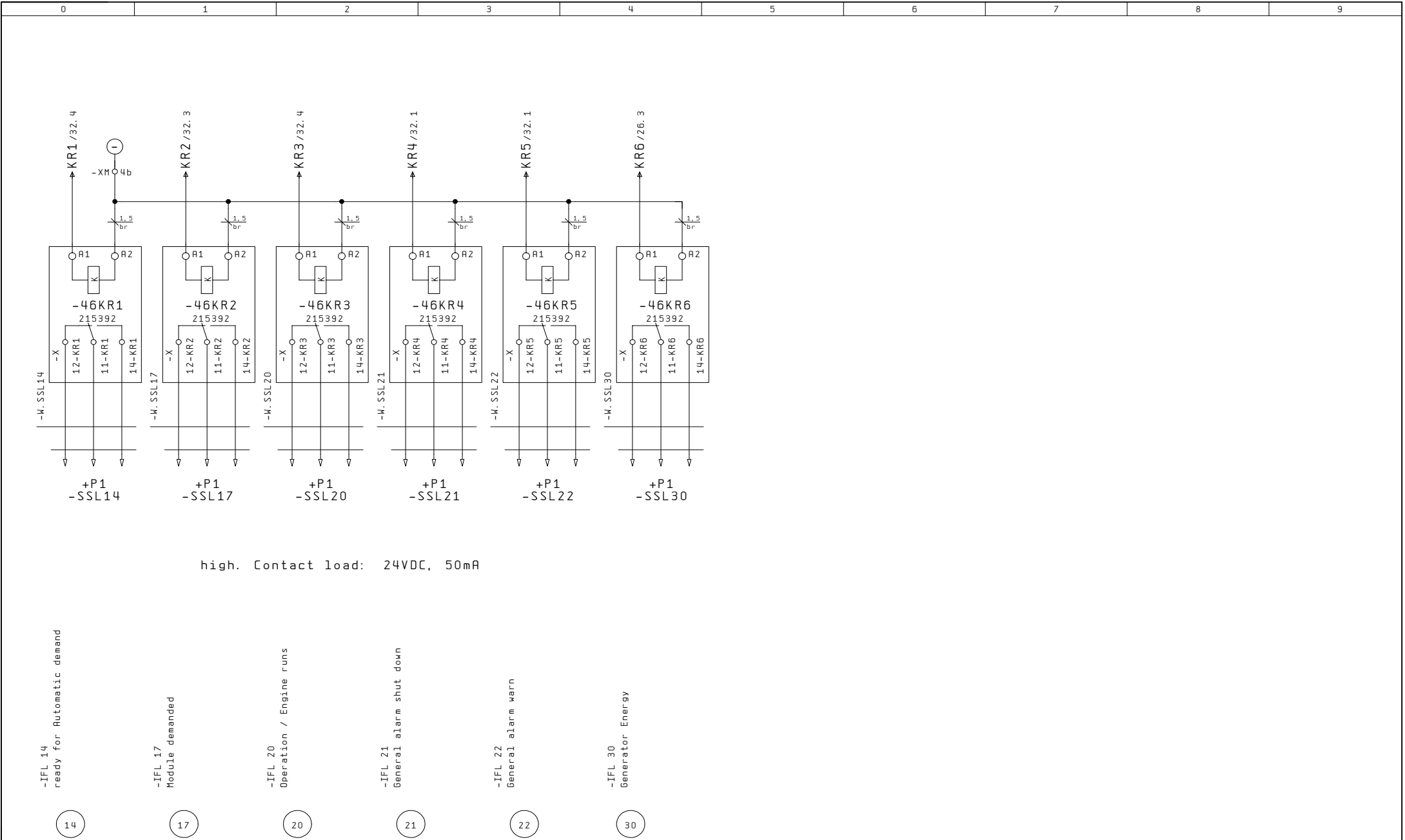
85



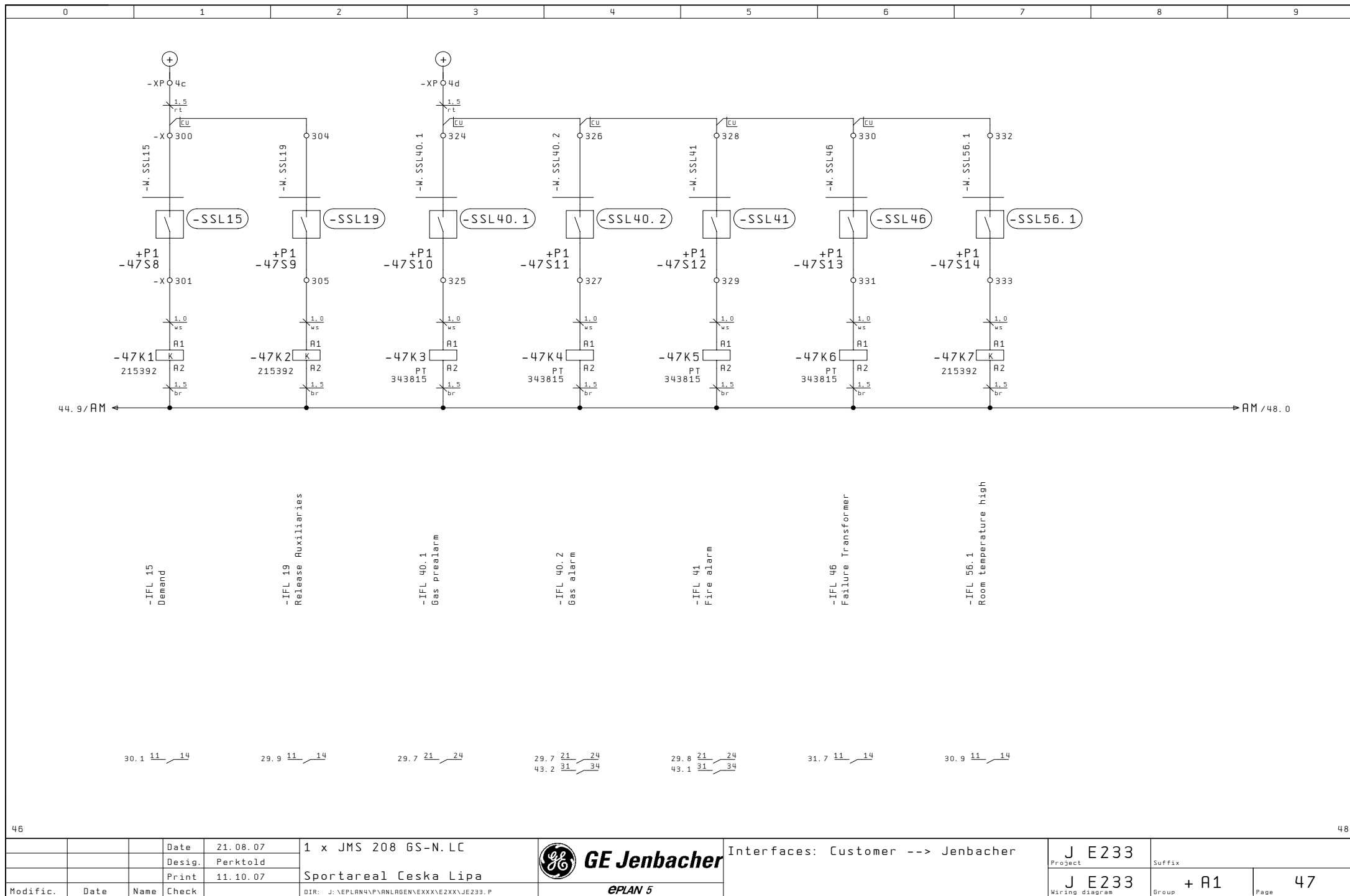
-IFL 76  
Generator circuit breaker opening failure

76

high. Contact load: 24VDC, 5A  
230VAC, 5A









Spare

Spare

Spare

Spare

Spare

Spare

			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Spare	J E233				
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			Print	11.10.07				Sportareal Ceska Lipa				
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\VP\ANLAGEN\EXXX\E2XX\JE233.P		EPLAN 5		J E233	Group	+ A1	Page	48
								Wiring diagram				



[illegible]

50										52									
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Terminals general +A1	J E233		Suffix									
			Desig.	Perktold	Sportareal Ceska Lipa			Project		Group + A1		Page 51							
Modific.	Date	Name	Check	Print				Wiring diagram											
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			54		56	
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Terminal strip  +A1-XH1		Device / Function		Page															
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Terminal																			
<div><div><div>Terminal strip</div><div>+A1-XH1</div></div><div><div>Supply Auxiliaries</div><div>3x400/230V, 50Hz, 63A</div></div><div><div>U1</div><div>V1</div><div>W1</div><div>N</div><div>PE</div></div><div><div>700</div><div>701</div><div>702</div><div>ON</div><div>OPE</div></div><div><div>#2</div><div>#3</div><div>#4</div><div>#5</div></div></div>																			
55																			
57																			
				Date		21.08.07		1 x JMS 208 GS-N.LC		<div><div><div></div></div><div>GE Jenbacher</div></div> Terminals Supply Auxiliaries		J E233		Suffix					
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				Print		11.10.07		DIR: J:\EPLAN\4\P\AN\L\BEN\EXXX\E2XX\JE233.P				Wiring diagram		Page 56					
Modific.		Date		Name		Check		EPLAN 5											



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Command: Generator circuit breaker on/off									
-IFL 50.1 Hot water flow existing									



			0		1		2		3		4		5		6		7		8		9	
			</																			

# Power panel +L1

Parameters for the operation  
of GE Jenbacher Engines  
acc. TI.Nr.: 1100-0110

Modifications of Design  
reserved.


All Cables between the  
Switchboards and the Engine  
have to be in flexible mode.

Protection against electric shock hazard  
( Grounding, Potential Compensation )  
has to be provided by the Customer at  
Installation according to local Standards !  
At states of Delivery the Installation is  
prepared for Protection Connection to  
Zero Potential to and Current  
Overload Protection in TN-Network  
to IEC 60439 .



The Numbers in the circles are in  
Relation with the Numbers in the  
Interface-List J E233 4410 00


This Wiring Diagram is designed with  
a CAE-System.  
Modifications will be occupied by  
GE Jenbacher

		Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Power panel +L1	J E233	Suffix	
		Desig.	Perktold				Project		
		Print	11.10.07	Sportareal Ceska Lipa			J E233	Group	+ L1
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P	EPLAN 5		Wiring diagram	Page	1

0	1	2	3	4	5	6	7	8	9
Diagram index									
Page	Denomination	Modifications	Page	Denomination	Modifications				
+L1/1	Power panel +L1								
+L1/2	Diagram index								
+L1/3	TECHNICAL INFORMATION								
+L1/4	Wiring colours in panel								
+L1/5	Over view Terminal strips								
+L1/6	Power panel								
+L1/7	Generator circuit breaker								
+L1/8	Measurement								
+L1/9	Generator circuit breaker								
+L1/10	Supply Auxiliaries								
+L1/11	Power panel 1250A TN-S								
+L1/12	Montageplatte Mounting plate								
+L1/13	Terminals general +L1								
+L1/14	Terminals Auxiliaries +L1								
+L1/15	Terminals Auxiliaries +L1								



0	1	2	3	4	5	6	7	8	9
<div><div><div><div>Nominal voltage: Nennspannung:</div><div>UN= 3x400/230V</div></div><div><div>Frequency: Frequenz:</div><div>f= 50Hz</div></div><div><div>Nominal current: Nennstrom: ( Cu-Bar! )</div><div>IN= 800A Icw= 65kA Ip=143KA Vaux= 230V AC/24V DC</div></div><div><div>Earthing system: Netzform:</div><div>TN-C</div></div><div><div>Standards: Normen:</div><div>IEC EN60439-1</div></div><div><div>Protection: Schutzart:</div><div>IP40: exterior IP2x: interior ( Installation in electrial central room) IP40: außen IP2x: innen (Für Aufstellung in Schaltwarte)</div></div><div><div>Ambient temperature: Umgebungstemperatur:</div><div>+5°C - +40°C</div></div><div><div>EMC:</div><div>cl. B</div></div><div><div>Adjustment Generator circuit breaker:</div><div><div>I<sub>NGEN</sub> = 534A I&gt; = ( 1.05 ) * I<sub>NGEN</sub> = 560A I&gt;&gt; = ( 2.5 ) * I<sub>NGEN</sub> = 1600A I&gt;&gt;&gt; = ( 10 ) * IN = 8000A</div><div>0,7 / 1,0 sec 2,0 / 0,3 sec I<sup>2</sup>t : OFF</div></div></div></div></div>									

**GE Jenbacher**

CE

Project  
Wiring diagr. Group

J E233

+Lx

Serial No.

EAE/LKxxxxx

Year of  
manufacture

2007

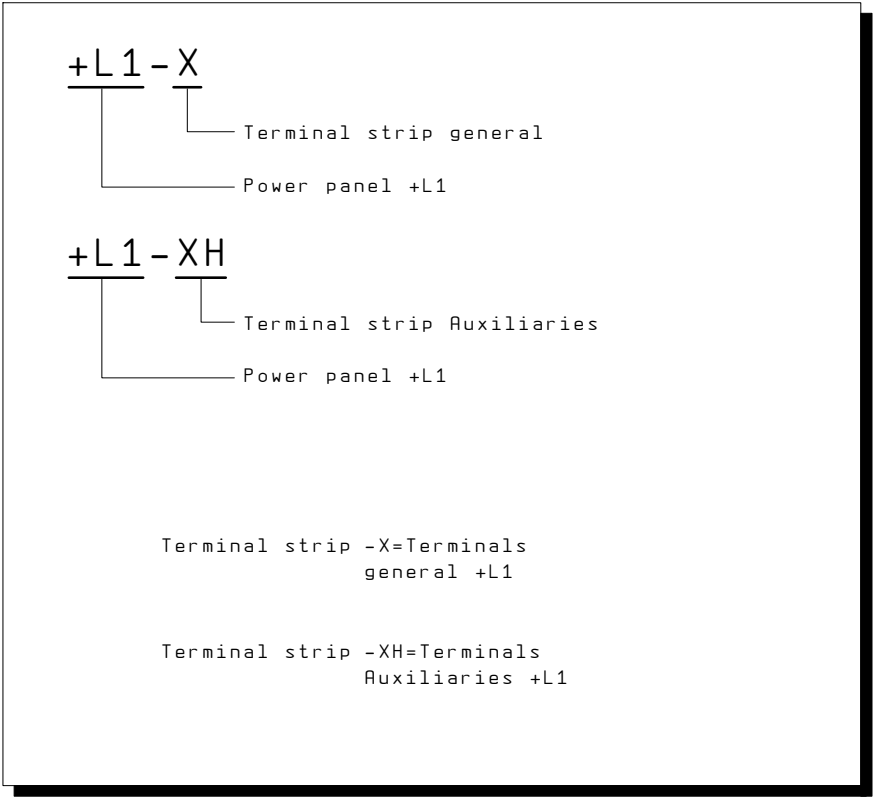
Standard

IEC 60439-1

0	1	2	3	4	5	6	7	8	9
<div><div>Wiring colours in panel:</div><div>AC :  Outside wire before (vi)violet Auxiliaries-supply disconnecting device : [L1 / L2 / L3]  Outside wire after (sw)black Auxiliaries-supply disconnecting device : [L1 / L2 / L3]  External Voltage : (or)orange (U/I - Measurement)  Protective wire [PE] : (gegn) green/yellow  N-Conductor [N] : (hbl) light blue  Function ground : (tr) transparent  24V AC : (gr)grey</div></div> <div><div>Wiring colours in panel:</div><div>DC :  Plus : (rt) red  Minus : (br)brown  Control : (ws) white  Thermo compensation cable : (gn) + green  (ws) - white  External Voltage : (or) orange  (Voltage free contacts)</div></div>									

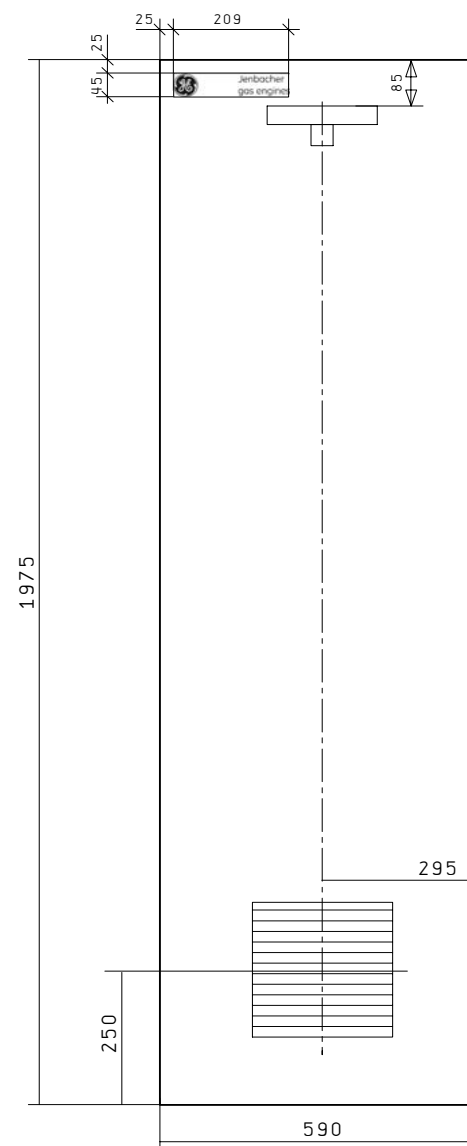
3										5									
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Wiring colours in panel	J E233											
			Desig.	Perktold				Project	Suffix										
			Print	11.10.07	Sportareal Ceska Lipa														
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P			EPLAN 5	J E233	Wiring diagram	Group	+ L1	Page	4						

Over view: Terminal strips



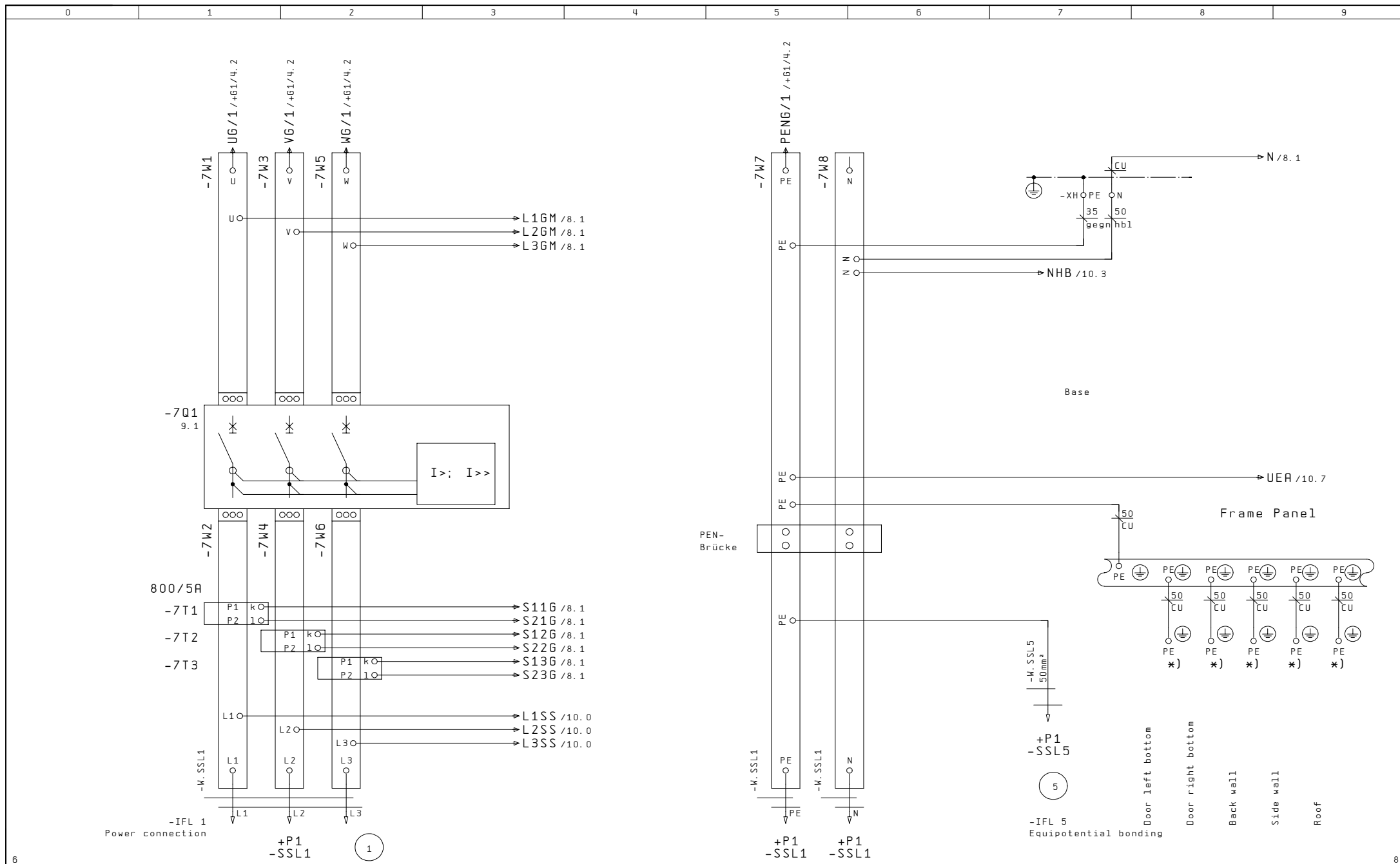
```
1 +L1-9M1 Panel fan
2 .... caution label
3 .... brand label
```

Colour:  
Panel RAL7035  
Base RAL7022

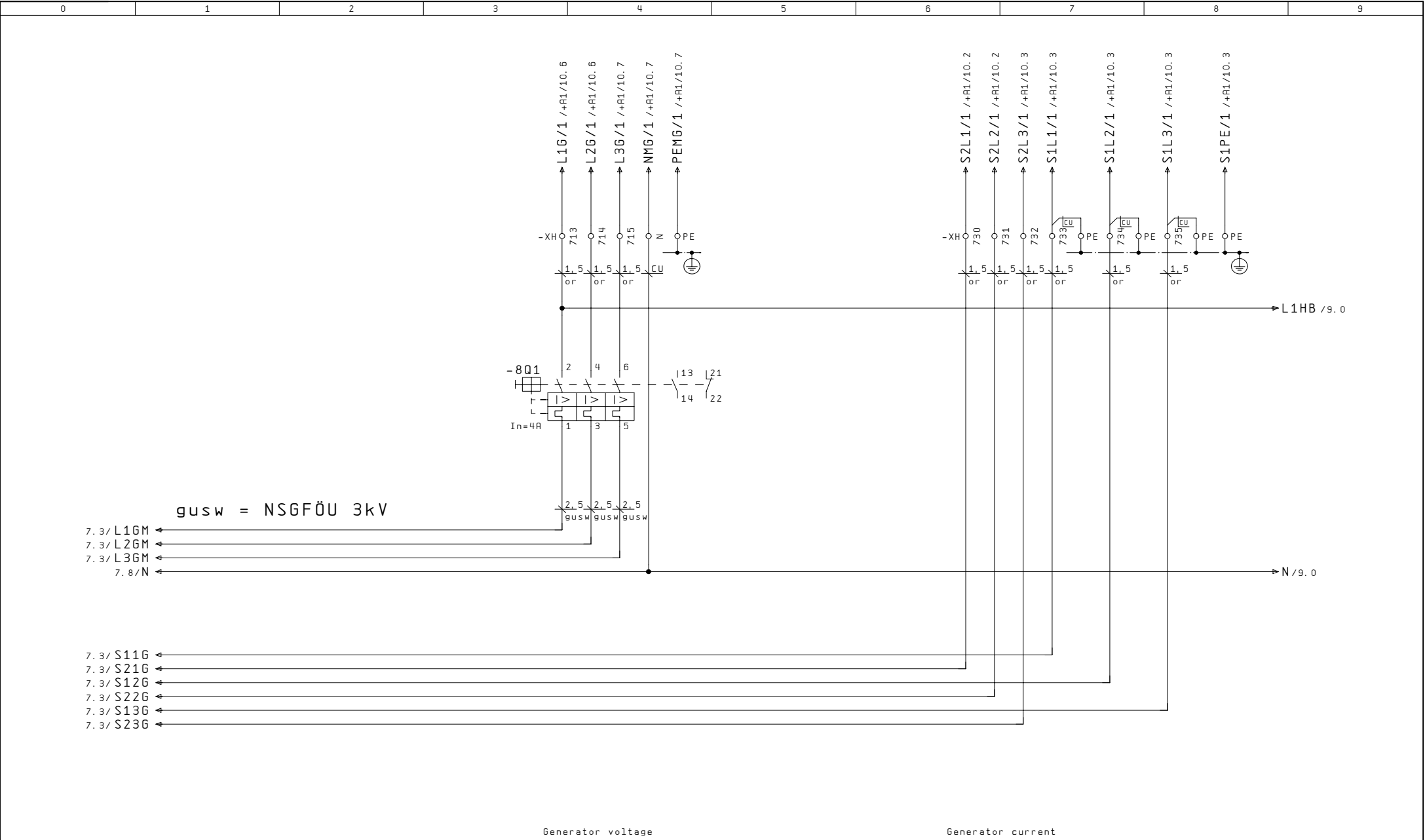



SCHRANKBESCHRIFTUNG  
TSCHECHISCH

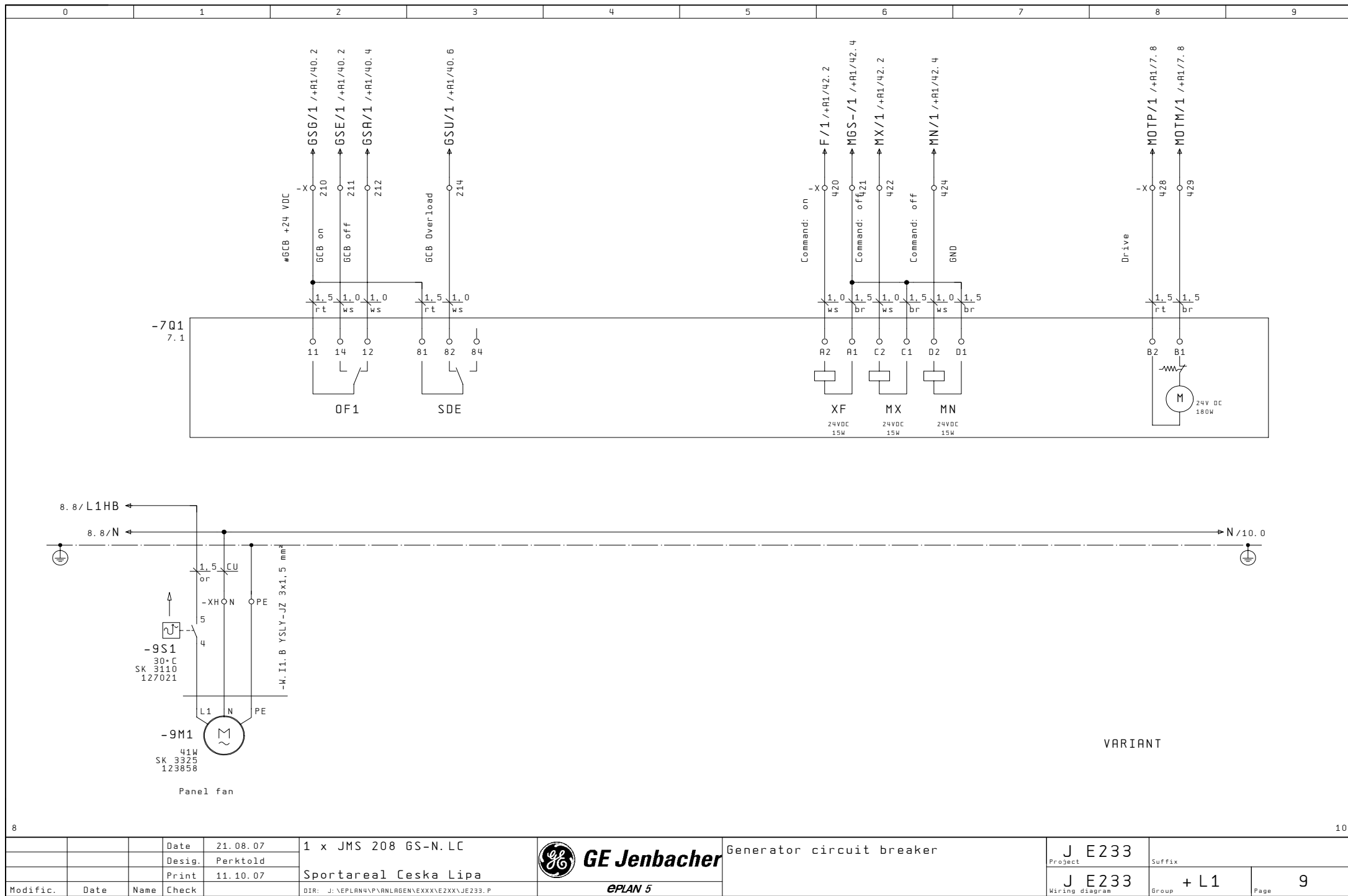
			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Power panel	J E233			
			Desig.	Perktold	Sportareal Ceska Lipa			Project	Suffix		
			Print	11.10.07				Wiring diagram	Group		
Modific.	Date	Name	Check		DIR: J:\EPLAN4\PLANLAGEN\EXXX\EZXX\JE233.P	<i>EPLAN 5</i>		J E233	+ L1	6	




6		1		8	
		Date	21.08.07	1 x JMS 208 GS-N.LC	
		Desig.	Perktold	Sportareal Ceska Lipa	
		Print	11.10.07	DIR: J:\EPLAN\4\P\AN\LAGEN\EXXX\JE233.P	
Modific.	Date	Name	Check	EPLAN 5	
				Generator circuit breaker	
				J E233	
				Suffix	
				J E233	
				Group + L1	
				Page 7	



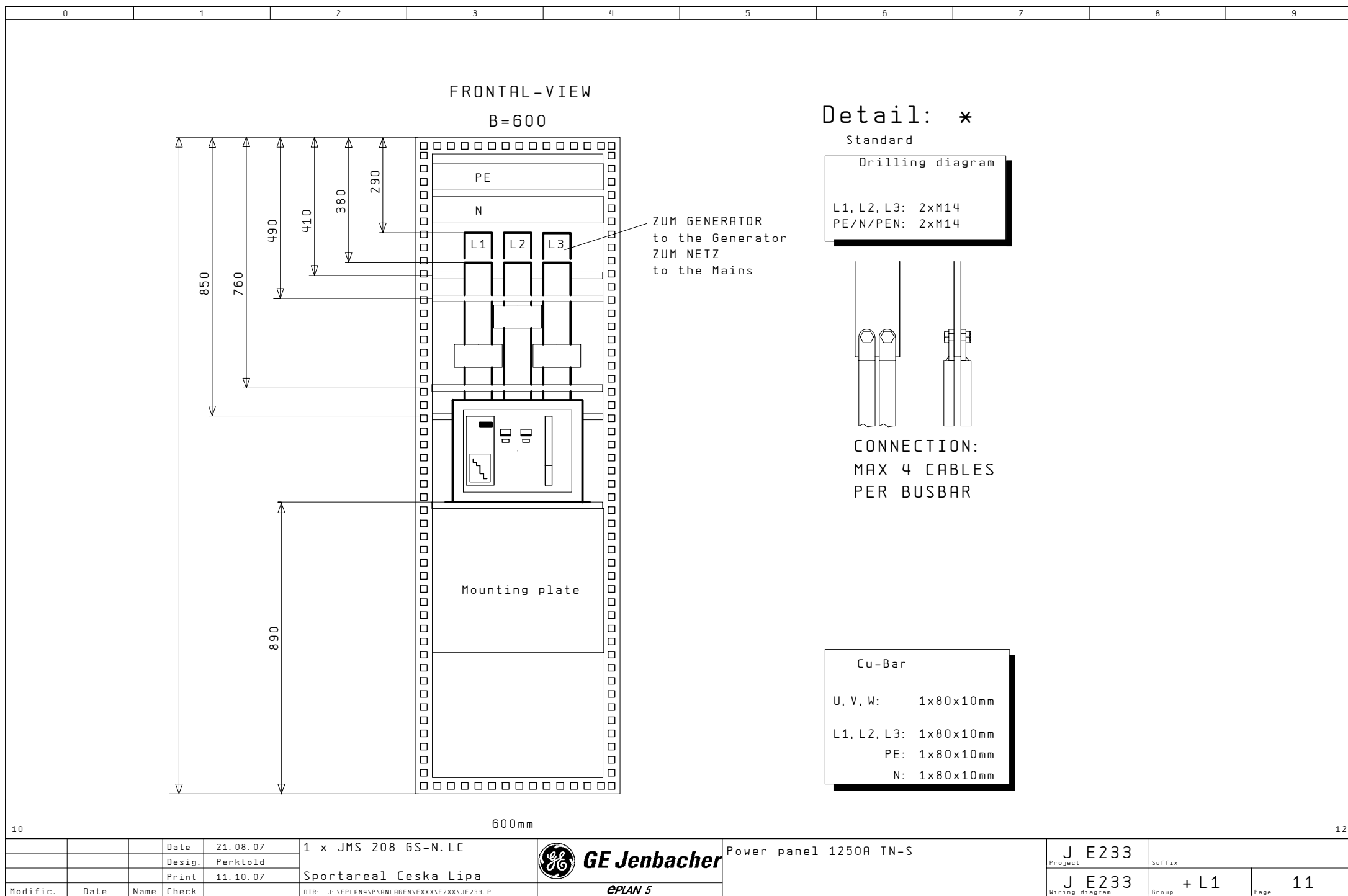
7										9									
			Date	21.08.07	1 x JMS 208 GS-N.LC			 <b>GE Jenbacher</b>	Measurement			J E233							
			Desig.	Perktold	Sportareal Ceska Lipa							Project							Suffix
			Print	11.10.07											J E233		Group + L1		Page 8
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\VP\ANLAGEN\EXXX\E2XX\JE233.P			EPLAN 5			Wiring diagram									




			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Generator circuit breaker	J E233			
			Desig.	Perktold				Project		Suffix	
			Print	11.10.07				Sportareal Ceska Lipa			
Modific.	Date	Name	Check		DIR: J:\EPLAN\4\P\AN\L\GEN\EXXX\E2XX\JE233.P	EPLAN 5		J E233	+ L1	9	
							Wiring diagram	Group		Page	







			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	Power panel 1250A TN-S	J E233					
			Desig.	Perktold					Project	Suffix			
			Print	11.10.07				Sportareal Ceska Lipa					
Modific.	Date	Name	Check	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\EXXX\JE233.P		<i>EPLAN 5</i>		J E233		+ L1	11		
								Wiring diagram	Group		Page		

0123456789

Montageplatte  
Mounting plate

500

440

600er

Detail: \*

Drillings:      ø14mm

30

18

80

18

1113

			Date	21.08.07	1 x JMS 208 GS-N.LC	<div><div><div><div></div><div>GE Jenbacher</div></div><div>EPLAN 5</div></div></div> <div>Montageplatte Mounting plate</div>	J E233		Suffix	
			Desig.	Perktold	Sportareal Ceska Lipa		J E233		+ L1	
			Print	11.10.07	DIR: J:\EPLAN\4\P\ANLAGEN\EXXX\E2XX\JE233.P		Wiring diagram		Page	
Modific.	Date	Name	Check							12



				0	1	2	3	4	5	6	7	8	9
				<div> <div>Terminal strip</div> <div>+L1-XH</div> </div>									
				<div> <div>Jumpers</div> <div>Terminal</div> <div>Device / Function</div> <div>Page</div> </div>									
				<div> <div>Base</div> <div>Generator voltage</div> <div>=</div> <div>Panel fan</div> <div>=</div> <div>Base</div> <div>Supply Module control</div> <div>=</div> <div>=</div> <div>=</div> <div>=</div> <div>Generator voltage</div> <div>=</div> <div>=</div> <div>Busbar voltage</div> <div>=</div> <div>=</div> <div>=</div> <div>=</div> <div>Generator current</div> <div>=</div> </div>									
				<div> <div>hbl</div> <div>+R1-W.E5.C YSLY-JZ 5x1.5mm²</div> <div>+R1-W.I1.B YSLY-JZ 3x1.5mm²</div> <div>+R1-W.E1.C NY 5x16mm²</div> <div>+R1-W.E2.C YSLY-JZ 5x1.5mm²</div> <div>+R1-W.E4.A YSLY-JZ 7x2.5mm²</div> </div>									
				<div> <div>+L1</div> <div>-7W8</div> <div>-9+L1</div> <div>-7M1</div> <div>+L1</div> <div>-7W7</div> </div>									
				<div> <div>13</div> <div>15</div> </div>									
				<div> <div>1 x JMS 208 GS-N.LC</div> <div>Sportareal Ceska Lipa</div> <div>DIR: J:\NEPLAN\4\PLAN\AGEN\EXXX\VE2XX\JE233.P</div> </div>									
				<div> <div>GE Jenbacher</div> <div>EPLAN 5</div> </div>									
				<div> <div>Terminals</div> <div>Auxiliaries +L1</div> </div>									
				<div> <div>J E233</div> <div>J E233</div> <div>+ L1</div> <div>14</div> </div>									

0	1	2	3	4	5	6	7	8	9
Terminal strip  +L1-XH	Page								
	Device / Function								
	Generator current	/8.7	/8.7	/8.7	/8.7	/8.8	/8.8	/8.8	
Jumpers									
Terminal									
<div> <div> +R1-XH 703 </div> <div> +R1-M-E4, A YSLY-JZ 7x2.5mm² Generator current 3 </div> </div> <div> <div> 704 </div> <div> 4 </div> </div> <div> <div> 705 </div> <div> 5 </div> </div> <div> <div> 706 </div> <div> 6 </div> </div> <div> <div> OPE </div> <div> PE </div> </div>									
<div> <div> +R1-XH 703 </div> <div> +R1-M-E4, A YSLY-JZ 7x2.5mm² Generator current 3 </div> </div> <div> <div> 704 </div> <div> 4 </div> </div> <div> <div> 705 </div> <div> 5 </div> </div> <div> <div> 706 </div> <div> 6 </div> </div> <div> <div> OPE </div> <div> PE </div> </div>									
<div> <div> +R1-XH 703 </div> <div> +R1-M-E4, A YSLY-JZ 7x2.5mm² Generator current 3 </div> </div> <div> <div> 704 </div> <div> 4 </div> </div> <div> <div> 705 </div> <div> 5 </div> </div> <div> <div> 706 </div> <div> 6 </div> </div> <div> <div> OPE </div> <div> PE </div> </div>									
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# HERMES +DF

Parameters for the operation  
of GE Jenbacher Engines  
acc. TI.Nr.: 1100-0110

Modifications of Design  
reserved.

All Cables between the  
Switchboards and the Engine  
have to be in flexible mode.

Protection against electric shock hazard  
( Grounding, Potential Compensation )  
has to be provided by the Customer at  
Installation according to local Standards !  
At states of Delivery the Installation is  
prepared for Protection Connection to  
Zero Potential to and Current  
Overload Protection in TN-Network  
to IEC 60439 .



The Numbers in the circles are in  
Relation with the Numbers in the  
Interface-List J E233 4410 00

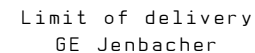
This Wiring Diagram is designed with  
a CAE-System.  
Modifications will be occupied by  
GE Jenbacher

+L1/15

2

á			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	HERMES +DF	J E233	Suffix	
			Desig.	Perktold	Sportareal Ceska Lipa			Project		
			Print	11.10.07				J E233	Group	+ DF
Modific.	Date	Name	Check	DIR: J:\EPLAN4\PLANLAGEN\EXXX\E2XX\JE233.P			EPLAN 5	Wiring diagram	Page	1





Telephone connection  
at the customer

a			Date	21.08.07	1 x JMS 208 GS-N.LC	 <b>GE Jenbacher</b>	DIANE WIN SERVER	J E233		
			Desig.	Perktold			APC620	Project	Suffix	
			Print	11.10.07	Sportareal Ceska Lipa					
Modific.	Date	Name	Check		DIR: J:\EPLAN4\P\ANLAGEN\EXXX\EZXX\JE233.P	<b>EPLAN 5</b>		J E233	Group + DF	Page 3
								Wiring diagram		



