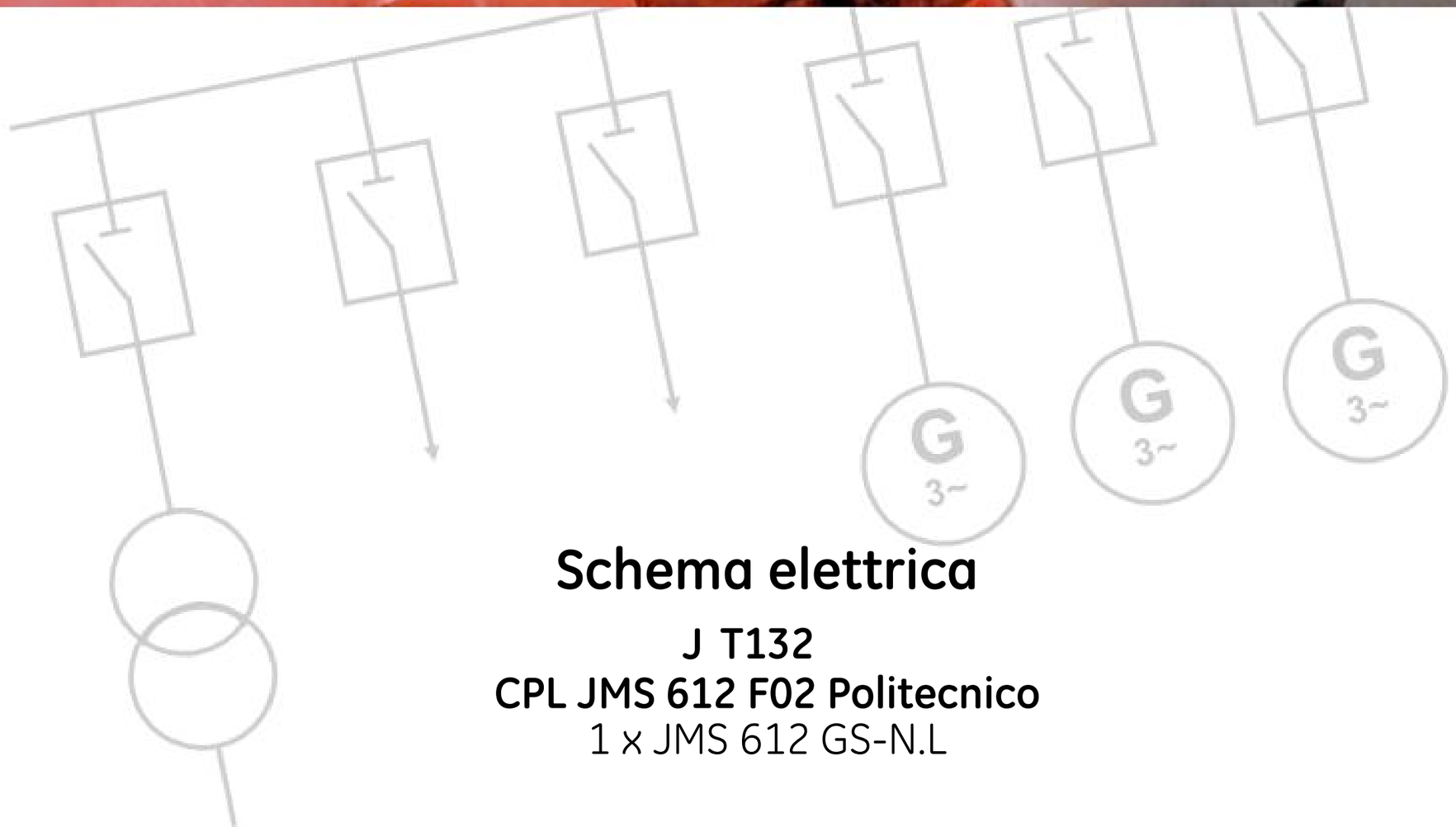
Jenbacher
gas engines



Schema elettrica

J T132
CPL JMS 612 F02 Politecnico
1 x JMS 612 GS-N.L

Jenbacher
gas engines

Wiring diagram

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CPL JMS 612 F02 Politecnico

1 x JMS 612 GS-N.L

ITA

J T132

Schema elettrico contiene 282 Pagina

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+U
Overview

Condizioni limite dei motori a gas GE Jenbacher, vedere IT n.: 1100-0110
For boundary conditions for GE Jenbacher gas engines, see TI no.: 1100-0110

Con riserva di modifiche alla costruzione
Design changes reserved.

Con riserva di modifiche nelle bozze.
We reserve the right to change draft plans.

Questi schemi sono stati creati su un sistema CAE. Ogni modifica può essere apportata esclusivamente da GE Jenbacher utilizzando i parametri originali.
These drawings have been prepared on a CAE system. Changes may only be made by GE Jenbacher using the parameters of the original.

I numeri relativi all'attribuzione dei componenti si riferiscono ai numeri della lista interfaccia e dello schema tecnico
The numbers in the part reference list are in relation with the numbers in the Interface-list and the Technical schema

J T132 00 03

Tutti i cavi tra gruppo e comando relativo devono essere posati con flessibilità..
All cables between the generating set and its control equipment must be of flexible construction..

In fase di montaggio le misure di protezione contro le scariche elettriche, la messa a terra, la compensazione di potenziale devono essere attuate in conformità con le prescrizioni locali del cliente.
The protective measures against electric shocks, earthing and equipotential bonding must be implemented by the customer during assembly in accordance with local regulations.

Nr.

-SSLxx

I numeri nei cerchi o nei triangoli si riferiscono ai numeri della lista dell'interfaccia.
The numbers in circles or boxes refer to the numbers in the interface list.

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Foglio del titolo / copertina Title page / cover sheet	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 3
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric			

Foglio revisioni
Revision summary

Versione Version	Data: Date:	Consenso: Nome Release: Name	Modificazioni: gruppi Modifications: Groups	Stato: Modificazione Status: Modification	Osservazione: Comment:
-	12.11.2014	Thaler		Vor Fertigung - Before manufacturing	Vorabdokumentation - Preliminary documentation
-	13.02.2015	Thaler Martin		Vor Fertigung - Before manufacturing	Schaltplan kreiert - Wiring diagram created

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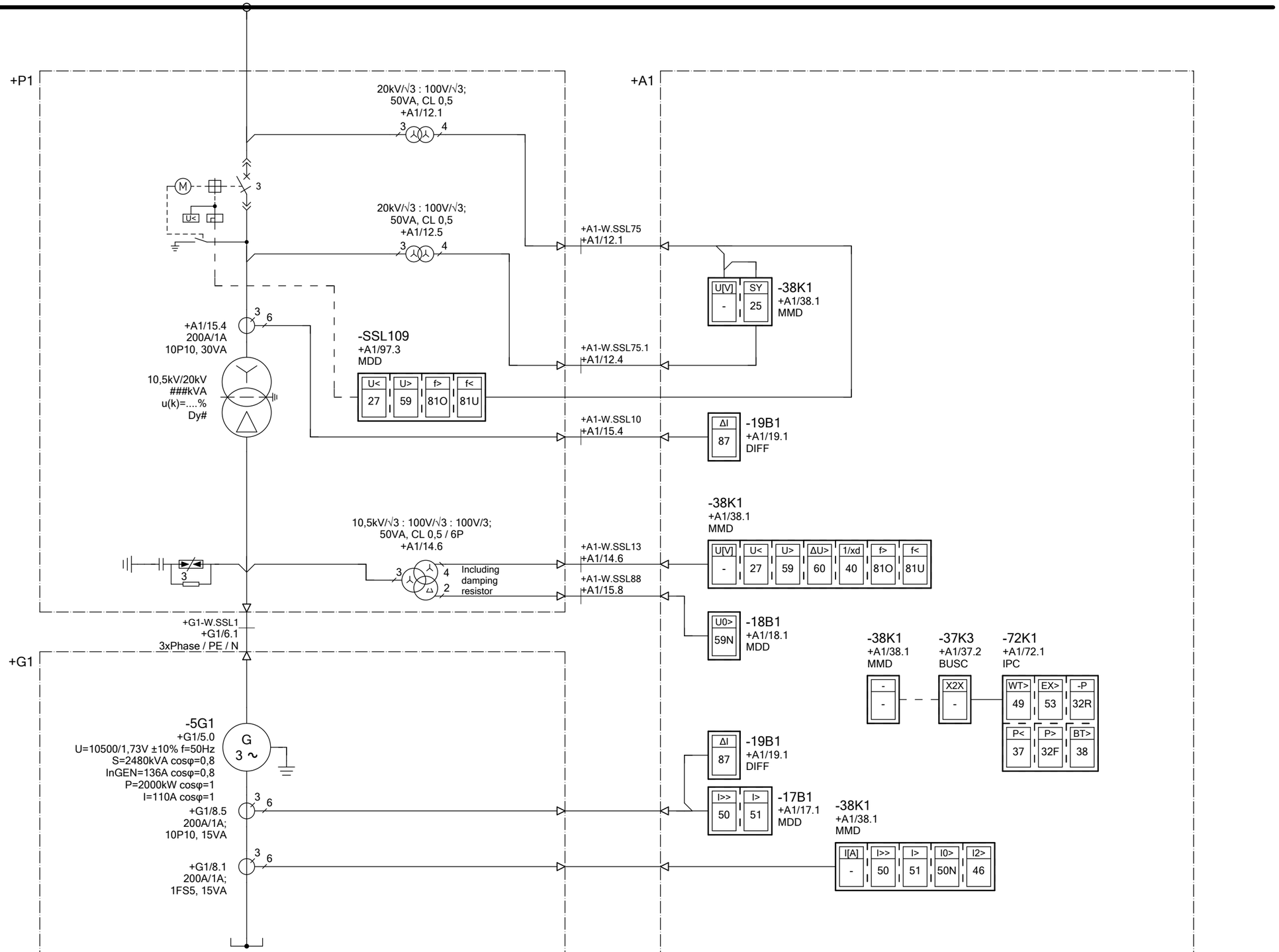
Tensione de la sbarra:
Busbar voltage: 20kV



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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	E-Schema Alternatore E-Diagram Generator	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 5
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	SGMACRO\U_64_1.emp			

ANSI / IEEE Standard C37.2

Protezione: Alternatore
Protection: Generator

11 Convertitore di misurazione e protezione / Multi measuring and monitoring device

25	Sincronizzazione / Synchronisation
27	Minima tensione / Under voltage
59	Massima tensione / Over voltage
50	Corto circuito / Short circuit
51	Sovracarico / Overload
50N	N - Corrente > / N - Current >
60	Asimmetria - Tensione / Unbalance - Voltage
46	Asimmetria - Corrente / Unbalance - Current
40	Disturbo Eccitazione / Failure Excitation
81O	Massima frequenza / Over frequency
81U	Minima frequenzia / Under frequency

DIANE

49	Temperatura avvolgimenti / Windings temperature
53	Tensione di eccitazione min / Excitation voltage min
32R	Ritorno di potenza / Reverse power
37	Potenza < / Power <
32F	Potenza > / Power >
38	Temperatura di cuscinetto / Bearing temperature

Rele / Relay

27	Minima tensione / Under voltage
59	Massima tensione / Over voltage
50	Corto circuito / Short circuit
51	Sovracarico / Overload
81O	Massima frequenza / Over frequency
81U	Minima frequenzia / Under frequency
87	Protezione differenziale / Dif protection
59N	Dispersione a terra / Tensione homopolare / Ground fault / Homopolair Voltage
59G	Dispersione a terra / Resistenza di isolamento / Ground fault / Insulating resistance

Alternatore interno / Generator internal

24	Tensione / Frequenzi Funzione / Voltage / Frequency Function
56	Eccitazione > / Excitation >

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Disinserimento
Switch off

Tensione
Voltage

U<	...	70% (Un)	(10min --> medium value)
tU<	...	150 ms	
U>	...	110% (Un)	
tU>	...	3 s	
U>>	...	120% (Un)	
tU>>	...	200 ms	

Un ... 400 V

Frequenzi
Frequency

f<	...	-0,2 Hz (fn)
tf<	...	150 ms
f<<	...	-2,5 Hz (fn)
tf<<	...	4 s
f>	...	+0,2 Hz (fn)
tf>	...	150 ms
f>>	...	+1,5 Hz (fn)
tf>>	...	1 s

fn ... 50 Hz

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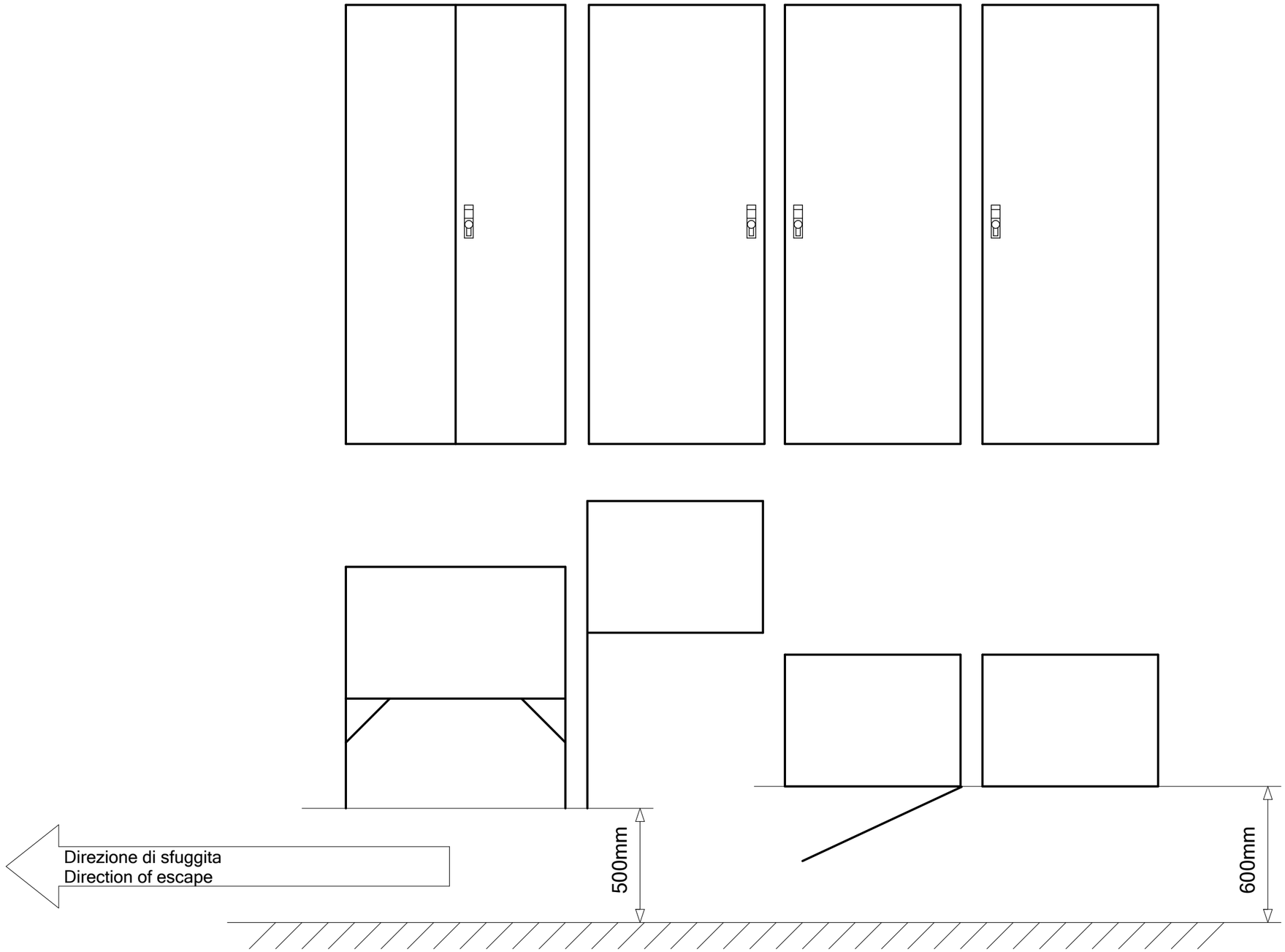
			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Aggiustamenti Disaccoppiamento rete Adjustments Mains disconnection device	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 7
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\U_140_4.emp			



conforme : IEC 60364-7-729

according :

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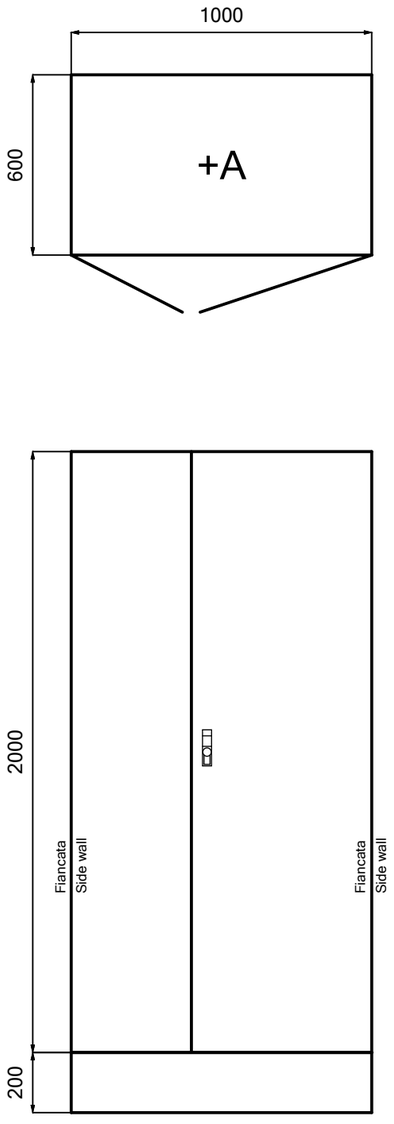

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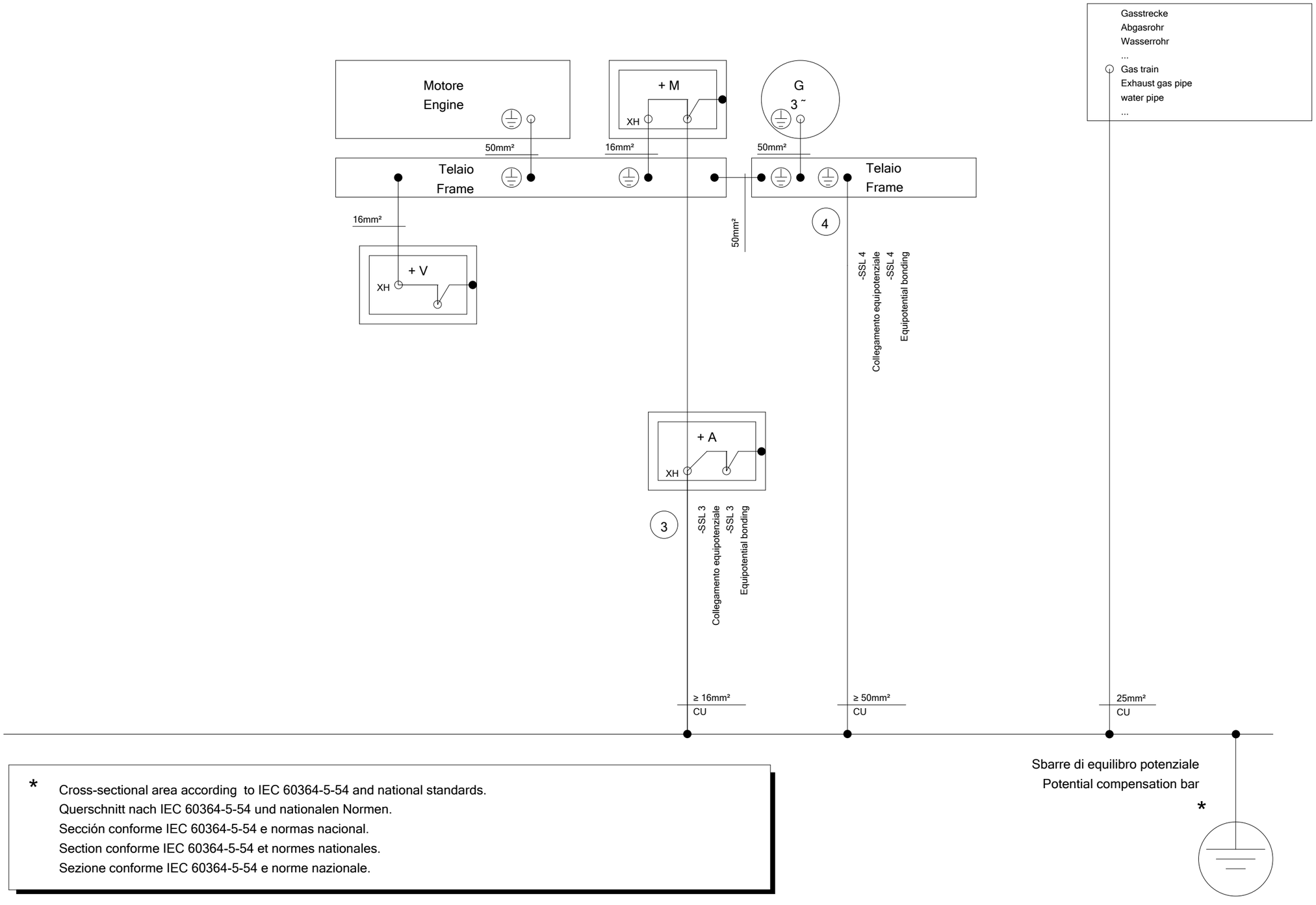
			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Foglio di coperta Quadro Overview Panels	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 9
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\U_206.emp			



* Cross-sectional area according to IEC 60364-5-54 and national standards.
Querschnitt nach IEC 60364-5-54 und nationalen Normen.
Sección conforme IEC 60364-5-54 e normas nacional.
Section conforme IEC 60364-5-54 et normes nationales.
Sezione conforme IEC 60364-5-54 e norme nazionale.

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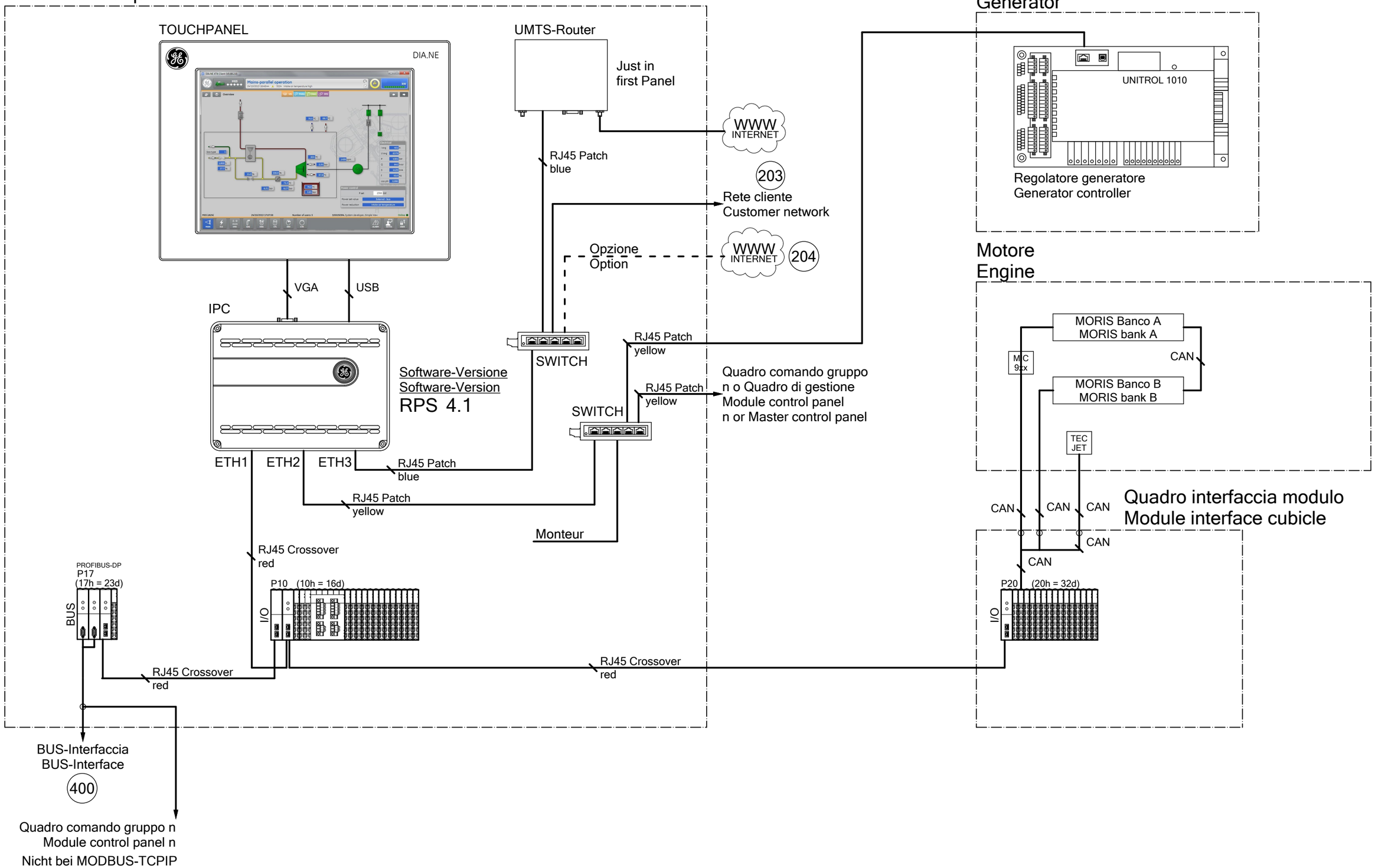
			Date	05.12.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Collegamento equipotenziale Equipotential bonding	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 10
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\U_217.emp			



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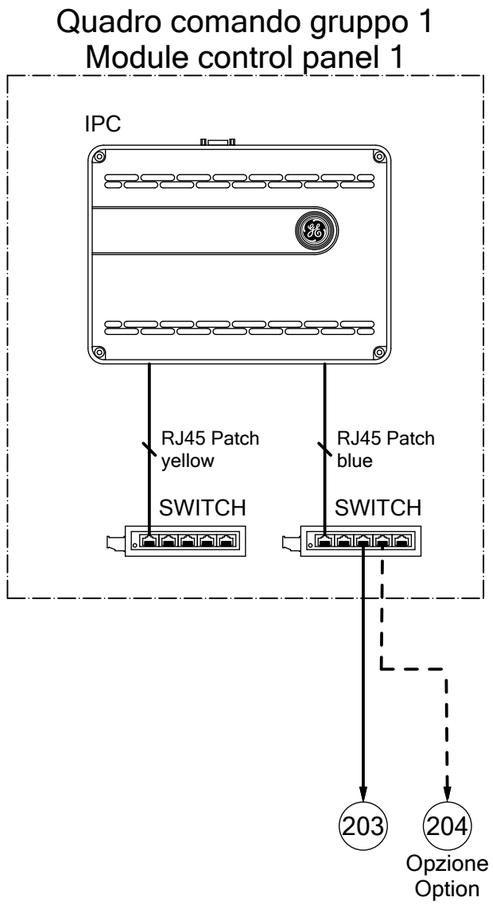
			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema bus XT4 Gruppo Bus diagram XT4 Engine	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 11
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric 8 SGMACRO\U_304_1.emp			



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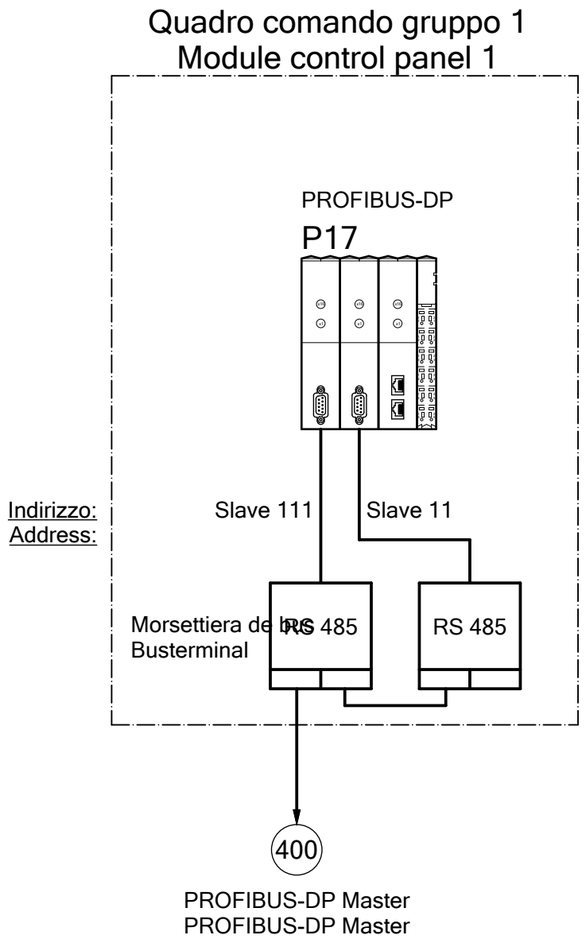
			Date	25.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema bus XT4 Impianto ############	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 12
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\U_306.emp			



*PROFIBUS - Cavi: EN 50170/2
no GEJ Fornitura
*PROFIBUS - Cable: EN 50170/2
not GEJ Delivery

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			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema bus XT4 PROFIBUS-DP Bus diagram XT4 PROFIBUS-DP	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 13
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\U_307_2.emp			

Direttive: Cablaggio
Requirements: Cabling

Secondo IT nr.: 1000-0505
in acc. with TI No.: 1000-0505

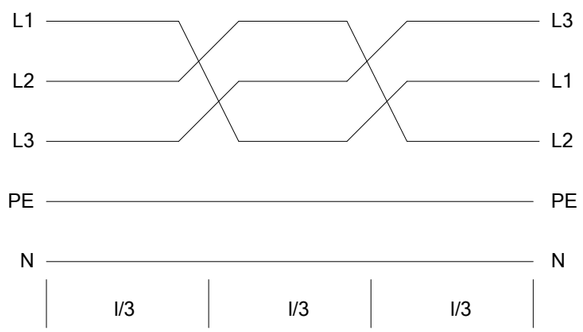
I conduttori devono essere di rame
The conductors shall be of copper

Sistema di conduttori:
Cable groups:

TA-Nr.: 1000-0505

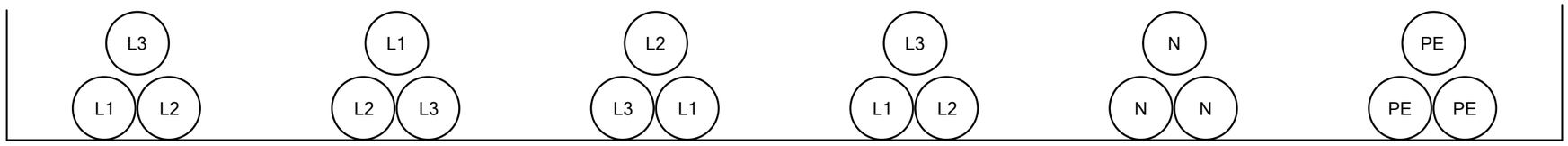
LG1 Sistema di conduttore A :	Cavi transduzione analogica con schermatura
CU1 Cable group A :	Shielded analog cables
	Cavi senza schermatura AC/DC ≤60 V Cable unshielded AC/DC ≤60 V
	Cavi con schermatura AC/DC ≤230 V Cable shielded AC/DC ≤230 V
LG2 Sistema di conduttore B :	Cavi senza schermatura AC/DC >60 V, ≤230 V
CU2 Cable group B :	Cable unshielded AC/DC >60 V, ≤230 V
LG3 Sistema di conduttore C :	Cavi senza schermatura AC/DC >230 V, ≤1000 V
CU3 Cable group C :	Cable unshielded AC/DC >230 V, ≤1000 V
	Cavi con schermatura AC >230 V, ≤1000 V Cable shielded AC >230 V, ≤1000 V

Cavi do bus sono da installare separatamente!
Bus cables must be laid separately!



LG3 Sistema di conduttore "C"
CU3 Cable group "C"

D = Diametro del cavo
D = Cable diameter



Cavi: Cable:	Ø
NYY 1x 70mm²	17mm
NYY 1x 95mm²	19mm
NYY 1x120mm²	20mm
NYY 1x150mm²	22mm
NYY 1x185mm²	25mm
NYY 1x240mm²	27mm

Pasarelle porta cavi in metallo
Metallic cable tray

Sistema di conduttore LG3-"C"
Cable group CU3-"C"

Sistema di conduttore LG2-"B"
Cable group CU2-"B"

Sistema di conduttore LG1-"A"
Cable group CU1-"A"

Cavi di bus
Bus cable

(REMOTEBUS,...)

Pasarelle porta cavi in metallo
Metallic cable tray

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			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Direttive: Cablaggio Requirements: Cabling	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 14
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\U_407.emp			

Cavi GE Jenbacher
Cable GE Jenbacher

Proposta cavi
Cabling proposal

Cavi GE Jenbacher Schema elettrica Cable GE Jenbacher Electric wiring diagram	VDE / IEC			USA	Ital. CEI 20-22	Spain
YSLY-OZ	NYSLYö-OZ VDE 250	HO5VV5-F.X..	SiHF Silikon	THWN		RV-K 0,6/1KV
YSLY-JZ	NYSLYö-JZ VDE 250	HO5VV5-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
NYY	NYY 1x185 rm 0,6/1KV-VDE 271	NYY 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		
NYY 0,6/1KV	Tutti i cavi potenza flessibile almeno multi-filo All cables flexible, power cables at least stranded				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
Cavo per generatore media tensione (>1kV) Cable for medium-voltage generator (>1kV)	Cavi secondo produttore generatore Cable as per generator manufacturer p.e. SIEMENS PROTOLON-NTMCGCWÖU e.g. SIEMENS PROTOLON-NTMCGCWÖU				vedere Specifica tecnica See technical specifications	

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			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Cavi Cable	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 15
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\U_409.emp			

Austria	European Standard	IEC
YSLY - OZ - JZ	H05VV5-F.X.. H05VV5-F.G.. (CENELEC HD 21.13) Core identification: black cores with white numbers	Type 227 IEC 75 or Type 60227 IEC 75 acc. to IEC 60227-7
YSLCY - OZ - JZ	H05VVC4V5-K.X.. H05VVC4V5-K.G.. (CENELEC HD 21.13) Core identification: black cores with white numbers	Type 227 IEC 74 or Type 60227 IEC 74 acc. to IEC 60227-7
H07RN-F	H07RN-F (CENELEC HD 22.4) Core identification by colours according to HD 308	Type 245 IEC 66 or Type 60245 IEC 66 acc. to IEC 60245-4
H05V-K	H05V-K (CENELEC HD 21.3)	Type 227 IEC 06 or Type 60227 IEC 06 acc. to IEC 60227-3
H07V-K	H07V-K (CENELEC HD 21.3)	Type 227 IEC 02 or Type 60227 IEC 02 acc. to IEC 60227-3
H07V2-K	H07V2-K (CENELEC HD 21.7)	Type 227 IEC 08 or Type 60227 IEC 08 acc. to IEC 60227-3
Kabel für Mittelspannungsgenerator (>1kV) Cable for middle voltage generator (>1kV)	Cavi secondo produttore generatore Cable as per generator manufacturer p.e. SIEMENS PROTOLON-NTMCGCWÖU e.g. SIEMENS PROTOLON-NTMCGCWÖU	vedere Specifica tecnica See technical specifications

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			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 16
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\U_410.emp			

Lista dei cavi
Over view cables

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

- **f** — Sezione / Cross section
- **e** — Filo di protezione / Protective wire
  - **OZ:** senza conduttore di protezione / without protective conductor
  - **JZ:** con conduttore di protezione / with protective conductor
- **ddd** — Tipo / Type
- **c** — Cavi Gruppo / Cable Group
  - **A:** Cavi AC/DC ≤60V / Cable AC/DC ≤60V
  - **B:** Cavi AC/DC ≥60V,≤250V / Cable AC/DC ≥60V,≤250V
  - **C:** Cavi AC >250V,≤1kV / Cable AC >250V,≤1kV
- **xxx** — Cavi Numero / Cable Number
- **b** — Cavi Funzione / Cable Function
  - **M:** Installazione di gruppo / Engine installation
  - **E:** Esterno / External
  - **I:** interno / internal
  - **SSL:** Interfaccia / Interface
- **W** — Cavi / Cable
- **a** — Gruppo / Schema elettrica / Group / Electric wiring diagram
  - **+A:** Quadro comando gruppo / Module control panel
  - **+M:** Quadro interfaccia modulo / Module interface cubicle
  - **+SY:** Quadro di sincronizzazione / Synchronisation panel

esempio
example

esempio: Cavi interno
example: Cable internal

+M-W.I100.A YSLCY-OZ 2x1,5mm²

esempio: Installazione di gruppo
example: Engine installation

+M-W.M100.A YSLC-JZ 3x1,5mm²

esempio: Cavi Esterno
example: Cable External

+M-W.E100.A YSLCY-JZ 5x2,5mm²

esempio: Interfaccie
example: Interfaces

+M-W.SSL100

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			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Lista dei cavi Over view cables	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 17
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\U_412.emp			

Colori fili nell quadro
Wiring colours in panel

AC

Conduttore esterno a monte di azionamenti ausiliari - Interruttore principale: Outer conductor before auxiliaries - main breaker:	(or) arancione (or) orange [L1 / L2 / L3]
Conduttore esterno a valle di azionamenti ausiliari - Interruttore principale: Outer conductor after auxiliaries - main breaker:	(sw) nero (sw) black [L1 / L2 / L3]
Tensione esterna External voltage (U/I - Misura) (U/I - Measurement)	(or) arancione (or) orange
Filo di protezione [PE] : Protective wire [PE] :	(gegn) giallo / verde (gegn) yellow / green
N - Conduttore [N] : N - Conductor [N] :	(hbl) blu chiaro (hbl) light blue
Collegamento a massa : Function ground :	(tr) trasparente (tr) transparent
24V AC :	(gr) grigio (gr) grey
Standard Tipo: Standard Type:	H05V-K (≤ 1,0mm²) H07V-K (≥ 1,5mm²)
NSGAFÖU-Cavi: NSGAFÖU-Cable:	gusw

Colori fili nell quadro
Wiring colours in panel

DC

Positivo : Plus :	(rt) rosso (rt) red
Negativo : Minus :	(br) marron (br) brown
Comando : Control :	(ws) bianco (ws) white
Tensione esterna External voltage Contatti puliti Voltage free contacts	(or) arancione (or) orange
Conduzione termo coppia : Thermo compensation cable :	(gn) + verde (gn) + green (ws) - bianco (ws) - white
Standard Tipo: Standard Type:	H05V-K (≤ 1,0mm²) H07V-K (≥ 1,5mm²)

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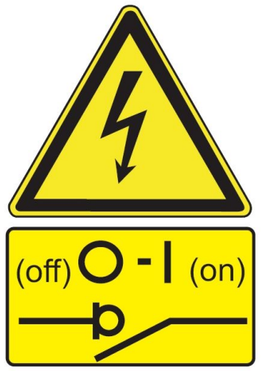
			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	Colori fili nell quadro Wiring colours in panel	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 18
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\U_412_1.emp			

vedi TI-No 2300-0005

see TI-No 2300-0005



Questa targhetta di avvertenza posta vicino al sezionatore di rete significa che tutti i circuiti vengono disinseriti per mezzo del sezionatore di rete.

If you see this warning near the mains isolating device, this means that the mains isolating device has not switched off all the electrical circuits.

La designazione dei "circuiti esclusi" dal disinserimento è descritta nello schema elettrico

The "except for" electrical circuits - i.e. the circuits that are not switched off - are shown in the circuit diagram

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			Date	06.11.2014	1 x JMS 612 GS-N.L	Jenbacher gas engines	etichetta di attenzione caution label	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 19
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\U_412_5.emp			

Sommario identificativo struttura
Structure identifier overview

Designazione completa Full designation	Descrizione struttura Structure description
+U	Foglio di coperta Overview
+B	Lista di componenti Part reference list
+G1	Alternatore 1 Generator 1
+M1	Quadro interfaccia modulo 1 Module interface cubicle 1
+V1	Prelubrificazione 1 Prelubrication 1
+A1	Quadro comando gruppo 1 Module control panel 1
+E1	Motori a gas 1 Gas engine 1
+P1	Periferia 1 Periphery 1

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sommario identificativo struttura Structure identifier overview	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 20
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8			

Sommario dei cavi
Cable overview

Designazione cavi Cable designation	di from	a to	Tipo cavo cable type	Tube number	Tensione Voltage	Filo Wire	ø	Lunghezza Length	Pagina Page	Testo funzionale function text
+G1-W.SSL1	+G1-X	+P1-SSL1							+G1/6.1	Collegamento potenza Power connection
+G1-W.SSL4	+G1-PE	+P1-SSL4	H07V-K			1	50 mm²		+G1/7.2	Collegamento equipotenziale Equipotential bonding
+G1-W.M190.A	+G1-X3	+M1-XS	YSLCY-JZ			18	1,5 mm²		+G1/9.1	Temperatura avvolgimenti U Windings temperature U
+G1-W.M199.B	+G1-X2	+M1-XE	YSLY-OZ			4	1,5 mm²		+G1/10.3	Diseccitazione deexcitation
+G1-W.M200.B	+G1-X3	+M1-XH	YSLY-JZ			3	1,5 mm²		+G1/11.4	Scaldiglie anticondensa Anti condensation heater
+G1-W.M300.A	+M1-XS	+G1-10K1	YSLCY-OZ			2	1,5 mm²		+G1/10.8	Tensione di eccitazione Excitation voltage
+G1-W.M310.A	+M1-XE	+G1-10K1	YSLY-JZ			7	1,5 mm²		+G1/10.1	Scelta sincr. Selection SY
+G1-W.M350.A	+G1-X2	+M1-X	YSLY-JZ			7	1,5 mm²		+G1/10.5	24VDC: Regolatore generatore 24VDC: Generator controller
+G1-W.M360.A	+M1-XS	+G1-10K1	YSLCY-OZ			2	1,5 mm²		+G1/10.7	Valore nominale: cosϕ ± 10V Set point: cosϕ ± 10V
+G1-W.M370.A	+M1-XS	+G1-10K1	YSLCY-OZ			2	1,5 mm²		+G1/10.6	Riserva Spare
+G1-W.M400.B	+G1-X2	+M1-XE	YSLY-OZ			2	1,5 mm²		+G1/10.9	Equilibro di tensione Voltage matching
+M1-W.M202A	+M1-XS	+E1-75M1	YSLCY-OZ			3	1,5 mm²		+M1/75.3	Refrigeratore dell'olio Gradino 2 Oil cooler Step 2
+M1-W.SSL49	+M1-X	+P1-SSL49							+M1/70.5	Valvola principale del gas Main gas valve
+M1-W.E1.A	+M1-X	+A1-X	YSLY-JZ			5	10 mm²		+M1/9.1	24VDC Alimentazione Quadro comando gruppo 24VDC Supply Module control panel
+M1-W.E3.A	+M1-P	+P1-18C2	NSGAFÖU			1	150 mm²		+M1/18.3	Batteria + Battery +
+M1-W.E4.A			NSGAFÖU			1	150 mm²		+M1/18.4	=
+M1-W.E5.A			NSGAFÖU			1	150 mm²		+M1/18.3	
+M1-W.E6.A	+M1-M	+P1-18C3	NSGAFÖU			1	150 mm²		+M1/18.4	Batteria - Battery -
+M1-W.E12.B	+M1-XE	+A1-XE	YSLY-OZ			2	1,5 mm²		+M1/74.2	Equilibro di tensione Voltage matching
+M1-W.E13.C	+M1-XH	+A1-XH	H07V-K			1	16 mm²		+M1/6.5	Collegamento equipotenziale Interfaccia modulo Equipotential bonding Module interface
+M1-W.E20.A	+M1-X	+P1-63B1	YSLY-OZ			2	1,5 mm²		+M1/63.1	Pressione gas min Rampa di gas 1 Gas pressure min Gas train 1
+M1-W.E21.A	+M1-X	+P1-63B2	YSLY-OZ			2	1,5 mm²		+M1/63.2	Pressione gas massima Rampa di gas 1 Gas pressure max Gas train 1
+M1-W.E25.A	+M1-X	+P1-69K1	YSLY-JZ			4	1,5 mm²		+M1/69.1	Controllo di tenuta gas 1 Gassafety device 1
+M1-W.E30.A	+M1-X	+P1-70M1	YSLY-JZ			4	2,5 mm²		+M1/70.1	Valvola di gas 1 Rampa di gas 1 Gas valve 1 Gas train 1
+M1-W.E36.A	+M1-X	+P1-70M2	YSLY-OZ			2	1,5 mm²		+M1/70.3	Valvole gas precamera Pre chamber gas valves
+M1-W.E37.A	+M1-X	+P1-70M3	YSLY-OZ			2	1,5 mm²		+M1/70.4	=
+M1-W.E50.C	+M1-XH	+P1-71X1	H07V-K_gegn			1	16 mm²		+M1/71.1	Collegamento equipotenziale Rampa di gas Equipotential bonding Gas train
+M1-W.E51.C	+M1-XH	+P1-71X2	H07V-K_gegn			1	16 mm²		+M1/71.4	Collegamento equipotenziale Rampa di gas: Precamera Equipotential bonding Gas train: Pre chamber

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Sommario dei cavi
Cable overview

Designazione cavi Cable designation	di from	a to	Tipo cavo cable type	Tube number	Tensione Voltage	Filo Wire	ø	Lunghezza Length	Pagina Page	Testo funzionale function text
+M1-W.I102.B	+M1-XHT	+M1-26T1	YSLY-JZ			3	0,75 mm²		+M1/26.1	DC-AC Convertitore DC-AC Converter
+M1-W.I104.A	+M1-XS	+M1-72T1	YSLCY-OZ			3	0,75 mm²		+M1/72.3	Actuator Actuator
+M1-W.I236.B	+M1-XS1	+M1-79K1	YSLCY-OZ			3	1,5 mm²		+M1/81.4	MPM1: Alimentazione MPM1: Supply
+M1-W.I239.B	+M1-XS1	+M1-79K1	YSLCY-OZ			3	1,5 mm²		+M1/80.4	=
+M1-W.M16.A	+M1-XS	+E1-57B2	YSLCY-OZ			3	0,75 mm²		+M1/57.3	Motori a gas: Acqua di ritorno Temperatura Gas engine: Water return Temperature
+M1-W.M100.C	+M1-XH	+E1-6X1	H07V-K			1	16 mm²		+M1/6.8	Telaio Gruppo Frame Engine
+M1-W.M101.B	+M1-XH	+E1-16M1	YSLY-JZ			3	1,5 mm²		+M1/16.3	Pompa preriscaldamento Preheating pump
+M1-W.M103.C	+M1-XH	+E1-15E1	YSLY-JZ			5	2,5 mm²		+M1/15.4	Resistenza di riscaldamento Heating elements
+M1-W.M104.C	+M1-XH	+E1-15E2	YSLY-JZ			5	2,5 mm²		+M1/15.7	=
+M1-W.M105.C	+M1-XH	+E1-11M1	YSLY-JZ			4	4 mm²		+M1/11.3	Pompa di Acqua di raffreddamento motore 1 Engine jacket water pump 1
+M1-W.M106.C	+M1-XH	+E1-12M1	YSLY-JZ			4	1,5 mm²		+M1/12.3	Pompa olio AC Oil pump AC
+M1-W.M107.A	+M1-X	+E1-62B1	YSLY-OZ			2	1,5 mm²		+M1/62.1	Temperatura massima: Acqua raffreddamento carica 2 Temperature max: Charge cooling water 2
+M1-W.M113.A	+M1-X	+E1-63B1	YSLY-OZ			2	1,5 mm²		+M1/63.7	Pressione contra gas di scarico massima Exhaust gas backpressure max
+M1-W.M117.A	+M1-XS	+E1-53B3	YSLCY-OZ			3	1,5 mm²		+M1/53.6	Pressione di alimentazione Supercharge pressure
+M1-W.M118.A	+M1-XS	+E1-56B1	PT100			3	0,25 mm²		+M1/56.1	Temperatura di carica Charge temperature
+M1-W.M119.A	+M1-XS	+E1-56B2	YSLCY-OZ			3	0,75 mm²		+M1/56.3	Temperatura di olio Oil temperature
+M1-W.M120.A	+M1-XS	+E1-56B3	YSLCY-OZ			3	0,75 mm²		+M1/56.6	Temp. acqua di raffreddamento Engine jacket water temperature
+M1-W.M121.A	+M1-XS	+E1-53B1	YSLCY-OZ			3	0,75 mm²		+M1/53.1	Pressione olio Oil pressure
+M1-W.M122.A	+M1-XS	+E1-53B2	YSLCY-OZ			3	0,75 mm²		+M1/53.3	Press. acqua di raffreddamento Jacket water pressure
+M1-W.M123.C	+M1-XH	+E1-13M1	YSLY-JZ			4	1,5 mm²		+M1/13.3	Ventilatore di lavaggio Scavenging fan
+M1-W.M127.A	+M1-X	+E1-17B1	YSLY-OZ			2	1,5 mm²		+M1/17.7	Temperatura Serranda di lavaggio Temperature Scavenging flap
+M1-W.M133.A	+M1-X	+E1-17M1	YSLY-JZ			7	1,5 mm²		+M1/17.1	Serranda di lavaggio Scavenging flap
+M1-W.M134.A	+E1-17K1	+E1-17M1	YSLY-JZ			7	1,5 mm²		+M1/17.3	=
+M1-W.M138.A	+M1-X	+E1-60B1	YSLY-JZ			5	1,5 mm²		+M1/60.1	Livello olio: Motori a gas Oil level: Gas engine
+M1-W.M139.A	+M1-X	+E1-61M1	YSLY-OZ			2	1,5 mm²		+M1/61.2	Valvola olio Oil valve
+M1-W.M140.A	+M1-30K1	+E1-38B1	NICRNIGE			2	0,5 mm²		+M1/38.4	Temperatura gas di scarico a valle di turbo Exhaust gas temperature after turbocharger
+M1-W.M141.A	+M1-30K1	+E1-38B2	NICRNIGE			2	0,5 mm²		+M1/38.5	=
+M1-W.M178.A	+M1-X	+E1-62B3	YSLY-OZ			4	0,34 mm²		+M1/62.7	Sensori: Penetrazione acqua Sensor: Water seep into

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Sommario dei cavi
Cable overview

Designazione cavi Cable designation	di from	a to	Tipo cavo cable type	Tube number	Tensione Voltage	Filo Wire	ø	Lunghezza Length	Pagina Page	Testo funzionale function text
+M1-W.M181.A	+M1-X	+E1-73M1	YSLY-OZ			4	1,5 mm²		+M1/73.0	Valvola bypass del turbo 1 Turbo bypass valve 1
+M1-W.M182.A	+M1-XS	+E1-73M1	YSLCY-OZ			2	0,75 mm²		+M1/73.1	=
+M1-W.M183.A	+M1-X	+E1-62B2	YSLY-OZ			2	1,5 mm²	4,5 m	+M1/62.2	########### Flow Preheating OK
+M1-W.M188.A	+M1-X	+E1-72M1	YSLCY-OZ			2	1,5 mm²		+M1/72.3	Actuator Actuator
+M1-W.M189.A	+M1-XS	+E1-72M1	YSLCY-OZ			3	0,75 mm²		+M1/72.3	=
+M1-W.M193.A	+M1-XS	+E1-57B1	YSLCY-OZ			3	0,75 mm²		+M1/57.1	Temperatura aria di aspirazione Intake air temperature
+M1-W.M194.A	+M1-XS	+E1-54B3	YSLCY-OZ			3	1,5 mm²		+M1/54.6	Precamera: Pressione gas Pre chamber: Gas pressure
+M1-W.M213.A	+M1-XS	+E1-78B2	cable_199122			2		10 m	+M1/78.3	Albero gomiti (Giri) Trigger Crankshaft (Speed) Trigger
+M1-W.M217.A	+M1-XS	+E1-78B3	cable_199122			2		10 m	+M1/78.4	Albero gomiti (Giri) Reset Crankshaft (Speed) Reset
+M1-W.M218.A	+M1-XS	+E1-78B1	Kabelbaum cl			3		10 m	+M1/78.2	Albero a camme Camshaft
+M1-W.M226.A	+E1-80K1	+E1-81K1	Kabelbaum cl			4	0,5 mm²		+M1/80.0	Collegamento Banco B Connection bank B
+M1-W.M227.A	+M1-XS1	+E1-80K1	Kabelbaum			3	1,5 mm²		+M1/80.4	MPM1: Alimentazione MPM1: Supply
+M1-W.M228.A	+M1-XS	+E1-80K1	Kabelbaum cl			12	1,5 mm²		+M1/80.5	Segnali: Accesione Signals: Ignition
+M1-W.M229.A	+M1-XS	+E1-81K1	Kabelbaum cl			12	1,5 mm²		+M1/81.5	=
+M1-W.M230.A	+M1-XS1	+E1-81K1	Kabelbaum			3	1,5 mm²		+M1/81.4	MPM1: Alimentazione MPM1: Supply
+M1-W.M250.A	+M1-X	+E1-76M1	Kabelbaum						+M1/76.0	"TECJET 1" "TECJET 1"
+M1-W.M255.A	+M1-XS	+E1-76M1	Kabelbaum						+M1/77.3	TECJET Rampa di gas 1 TECJET Gas train 1
+M1-W.M259.A	+E1-22M1	+E1-22M2	Kabelbaum			10	1 mm²		+M1/22.3	Motorino d'avviamento 1 Starter motor 1
+M1-W.M260.A	+M1-P	+E1-22M1	NSGAFÖU			1	120 mm²		+M1/22.2	=
+M1-W.M261.A	+M1-M	+E1-22M1	NYY			1	120 mm²		+M1/22.2	=
+M1-W.M262.A	+M1-21F1	+M1-P	H07V2-K_rt			1	35 mm²		+M1/21.5	Carica Charge
+M1-W.M263.A	+M1-X	+M1-M	H07V-K_br			1	35 mm²		+M1/21.6	Punto distribuzione Base
+M1-W.M265.A	+M1-X	+V1-X	YSLY-OZ			4	1,5 mm²		+M1/20.2	Comando: Pompa olio DC Command: Oil pump DC
+M1-W.M270.A	+M1-P	+E1-22M2	NSGAFÖU			1	120 mm²		+M1/22.4	Motorino d'avviamento 2 Starter motor 2
+M1-W.M271.A	+M1-M	+E1-22M2	NYY			1	120 mm²		+M1/22.4	=
+M1-W.M300.A	+M1-XS	+E1-54B1	YSLCY-OZ			3	0,75 mm²		+M1/54.1	Pressione basamento Crankcase pressure
+M1-W.M301.A	+M1-XS	+E1-55B1	YSLCY-OZ			3	0,75 mm²		+M1/55.1	Precamera Rampa di gas: Pressione gas Pre chamber Gas train: Gas pressure
+M1-W.M302.A	+M1-XS	+E1-54B2	YSLCY-OZ			3	1,5 mm²		+M1/54.3	Pressione di alimentazione P2 Supercharge pressure P2

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+M1-W.M303.A	+M1-XS	+E1-55B2	YSLCY-OZ			3	0,75 mm²		+M1/55.3	Pressione diff filtro olio Oil differential pressure
+M1-W.SSL51.10	+M1-30K1	+P1-SSL51.10	NICRNIGE			2	0,5 mm²		+M1/38.6	############ Exhaust gas temperature after Catalyst
+M1-W.SSL51.11	+M1-30K1	+P1-SSL51.11	NICRNIGE			2	0,5 mm²		+M1/38.8	Temperatura gas di scarico a valle di scambiatore di calore gas di scarico
+V1-W.M86.C	+V1-X	+E1-5X1	H07V-K			1	16 mm²		+V1/5.3	Telaio Gruppo Frame Engine
+V1-W.M250.A	+V1-X	+E1-6M1	H07V-K_ws			1	25 mm²		+V1/6.3	Pompa olio DC 1 Oil pump DC 1
+V1-W.M251.A	+V1-X	+E1-6M1	H07V-K_br			1	25 mm²		+V1/6.3	=
+V1-W.M259.A	+M1-X	+V1-X	H07V-K_ws			1	1,5 mm²		+V1/6.5	Comando: Motorino d'avviamento Command: Starter motor
+V1-W.M262.A	+V1-X	+M1-P	H07V2-K			1	25 mm²		+V1/6.1	24VDC Punto distribuzione 24VDC Base
+V1-W.M263.A	+V1-X	+M1-M	H07V-K_br			1	25 mm²		+V1/6.2	=
+A1-W.SSL3	+A1-XH	+P1-SSL3							+A1/8.4	Collegamento equipotenziale Equipotential bonding
+A1-W.SSL6	+A1-XE1	+P1-SSL6				5	25 mm²		+A1/24.3	interruttore principale Supply disconnecting device
+A1-W.SSL10	+A1-XE	+P1-SSL10							+A1/15.4	Corrente del trafo Transformer current
+A1-W.SSL13	+A1-XE	+P1-SSL13							+A1/14.6	Tensione alternatore Generator voltage
+A1-W.SSL14	+A1-90K1	+P1-SSL14							+A1/90.1	pronto: Richiesta automatica ready: Automatic demand
+A1-W.SSL15	+A1-X	+P1-SSL15							+A1/91.1	Richiesta Demand
+A1-W.SSL17	+A1-90K2	+P1-SSL17							+A1/90.2	Modulo richiesta Module demanded
+A1-W.SSL18	+A1-83K1	+P1-SSL18							+A1/83.1	Richiesta Ausiliari Demand Auxiliaries
+A1-W.SSL19	+A1-X	+P1-SSL19							+A1/91.2	Consenso Ausiliari Release Auxiliaries
+A1-W.SSL20	+A1-90K3	+P1-SSL20							+A1/90.3	Servizio / Motore in servizio Operation / Engine runs
+A1-W.SSL21	+A1-90K4	+P1-SSL21							+A1/90.4	Disturbo generale arresto General alarm shut down
+A1-W.SSL22	+A1-90K5	+P1-SSL22							+A1/90.5	Disturbo generale Allarma General alarm Warning
+A1-W.SSL23	+A1-XE	+P1-SSL23							+A1/83.3	Arresto di emergenza Emergency stop
+A1-W.SSL24	+A1-XE	+P1-SSL24							+A1/84.1	Preallarme gas Gas prealarm
+A1-W.SSL25	+A1-XE	+P1-SSL25							+A1/84.2	Allarme di gas Gas alarm
+A1-W.SSL26	+A1-XE	+P1-SSL26							+A1/84.3	Allarme di incendio Fire alarm
+A1-W.SSL28	+A1-XS	+P1-SSL28							+A1/62.0	Valore nominale de la potenza Esterno Set point power External
+A1-W.SSL29	+A1-XS	+P1-SSL29							+A1/65.0	Potenza attiva del alternatore Generator active power

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			Date	11.03.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Lista dei cavi Over view cables	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 24
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric8			

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Cable overview

Designazione cavi Cable designation	di from	a to	Tipo cavo cable type	Tube number	Tensione Voltage	Filo Wire	ø	Lunghezza Length	Pagina Page	Testo funzionale function text
+A1-W.SSL30	+A1-90K6	+P1-SSL30							+A1/90.6	Alternatore Energia (kWh) Generator Energy (kWh)
+A1-W.SSL39	+A1-X	+P1-SSL39							+A1/81.3	Arresto di emergenza Emergency stop
+A1-W.SSL46	+A1-X	+P1-SSL46							+A1/94.1	Disturbo Trasformatore --> fermo Failure Transformer --> Shut down
+A1-W.SSL47	+A1-X	+P1-SSL47							+A1/94.2	Disturbo Trasformatore --> Allarma Failure Transformer --> Warning
+A1-W.SSL52	+A1-XH	+P1-SSL52							+A1/22.3	Valvola di ritorno Water return valve
+A1-W.SSL53	+A1-XS	+P1-SSL53							+A1/76.1	Temperature di ritorno Heating water return temperature
+A1-W.SSL75	+A1-XE	+P1-SSL75							+A1/12.1	Tensione de la sbarra Busbar voltage
+A1-W.SSL76	+A1-XE	+P1-SSL76							+A1/83.5	Disturbo disinserzione Interruttore alternatore opening failure Generator circuit breaker
+A1-W.SSL77	+A1-X	+P1-SSL77							+A1/94.3	Sezionatore di messa a terra Alternatore aperto Earthing isolator Generator open
+A1-W.SSL78	+A1-XCB	+P1-SSL78							+A1/80.3	Interruttore alternatore Bobina di chiusura Generator circuit breaker Switch on coil
+A1-W.SSL79	+A1-XCB	+P1-SSL79							+A1/80.7	Interruttore alternatore Bobina di min. tensione Generator circuit breaker Under voltage trip coil
+A1-W.SSL80	+A1-X	+P1-SSL80							+A1/96.1	Interruttore alternatore chiuso Generator circuit breaker closed
+A1-W.SSL81	+A1-X	+P1-SSL81							+A1/96.2	Interruttore alternatore aperto Generator circuit breaker open
+A1-W.SSL82	+A1-X	+P1-SSL82							+A1/95.3	Interruttore alternatore pronto Generator circuit breaker ready
+A1-W.SSL83	+A1-X	+P1-SSL83							+A1/95.3	carrello interruttori inserito Breaker truck racked in
+A1-W.SSL84	+A1-X	+P1-SSL84							+A1/95.4	Interruttore alternatore Sovracarico / Corto circuito Generator circuit breaker Overload / Short circuit
+A1-W.SSL88	+A1-XE	+P1-SSL88							+A1/15.8	Tensione homopolare 0-30V Homopolair Voltage 0-30V
+A1-W.SSL107	+A1-X	+P1-SSL107							+A1/97.4	Interruttore rete chiuso Mains circuit breaker closed
+A1-W.SSL108	+A1-X	+P1-SSL108							+A1/97.5	Trasformatore Interruttore chiuso Transformer Switch closed
+A1-W.SSL109	+A1-X	+P1-SSL109							+A1/97.3	Rete OK Mains OK
+A1-W.SSL203	+A1-74K1	+P1-SSL203							+A1/74.2	Rete cliente Customer network
+A1-W.SSL204	+A1-74K1	+P1-SSL204							+A1/74.3	INTERNET Collegamento INTERNET Connection
+A1-W.SSL400	+A1-XS	+P1-SSL400	MODBUS						+A1/70.3	MODBUS-RTU Interfaccia MODBUS-RTU Interface
+A1-W.E12.C	+M1-XH	+A1-XH	YSLY-JZ			5	10 mm²		+A1/25.1	Alimentazione Interfaccia modulo Supply Module interface
+A1-W.E14.A	+A1-XS	+P1-20B1	YSLCY-OZ			3	1,5 mm²		+A1/20.1	Sensore di gas 1 Gas sensor 1
+A1-W.E15.A	+A1-XS	+P1-20B2	YSLCY-OZ			3	1,5 mm²		+A1/20.8	Sensore di gas 2 Gas sensor 2
+A1-W.E81.A	+M1-X	+A1-X	YSLY-JZ			5	2,5 mm²		+A1/81.1	Arresto di emergenza Emergency stop
+A1-W.E133.A	+A1-X	+P1-21B1	J-YY			2	0,8 mm²		+A1/21.2	Sensore fumo Smoke detector

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+A1-W.E134.A	+P1-21B1	+P1-21B2	J-YY			2	0,8 mm²		+A1/21.2	Sensore fumo Smoke detector
+A1-W.E173.A	+G1-10K1	+A1-73K1	ETHERNET					30 m	+A1/73.3	Regolatore generatore Generator controller
+A1-W.E175.A	+M1-29K2	+A1-37K3	ETHERNET					30 m	+A1/46.3	P20 (Interfaccia modulo) P20 (Module interface)
+A1-W.I2.A	+A1-75K1	+P1-75T1	SMA			1			+A1/75.5	INTERNET Collegamento INTERNET Connection
+A1-W.I3.A	+A1-XM	+A1-75K1	DC-CABLE			2	0,8 mm²		+A1/75.3	UMTS-Router
+A1-W.I5.A	+A1-71A1	+A1-72K1	VGA						+A1/71.4	Visualizzazione: Schermo Visualisation: Display
+A1-W.I6.A	+A1-71A1	+A1-72K1	USB A-A						+A1/71.6	Visualizzazione: Touch-Comandi Visualisation: Touch-Commands
+A1-W.I7.A	+A1-72K1	+A1-74K1	ETHERNET					5 m	+A1/72.2	SWITCH Cliente SWITCH Customer
+A1-W.I9.A	+A1-37K3	+A1-72K1	ETHERNET					3 m	+A1/72.3	PLC POWERLINK PLC POWERLINK
+A1-W.I11.A	+A1-74K1	+A1-75K1	ETHERNET						+A1/75.6	SWITCH DIA.NE
+A1-W.I13.A	+A1-72K1	+A1-73K1	ETHERNET					5 m	+A1/72.3	=
+A1-W.I14.A	+A1-11B1	+A1-11F1	cable			2	0,5 mm²	3 m	+A1/11.3	Luce armadio Cabinet light
+A1-W.I20.A	+A1-XS	+A1-68K4	YSLCY-OZ			2	0,75 mm²		+A1/70.3	MODBUS-RTU Interfaccia MODBUS-RTU Interface
+A1-W.I23.A	+A1-37K2	+A1-68K2	ETHERNET					1 m	+A1/46.1	Sistema di bus Bus system
+A1-W.M4.A	+G1-X3	+A1-XE	YSLY-JZ			7	2,5 mm²		+A1/14.1	Corrente alternatore Trasformatore di misura Generator current Measuring C.T.S.
+A1-W.M7.C	+G1-X3	+A1-XE	YSLY-JZ			7	2,5 mm²		+A1/15.1	Corrente alternatore Trasformatore di protezione Generator current Protection C.T.S.
+A1-W.SSL31.1	+A1-XS	+P1-SSL31.1							+A1/62.6	Valore nominale: Cosϕ Set point: Cosϕ
+A1-W.SSL50.1	+A1-X	+P1-SSL50.1							+A1/82.1	Portata acqua calda esiste Hot water flow existing
+A1-W.SSL50.2	+A1-X	+P1-SSL50.2							+A1/82.2	Press. acqua calda massima Hot water pressure max
+A1-W.SSL50.3	+A1-X	+P1-SSL50.3							+A1/82.3	Temp. acqua calda massima Hot water temperature max
+A1-W.SSL50.4	+A1-X	+P1-SSL50.4							+A1/82.3	Temp. acqua calda massima 2 Hot water temperature max 2
+A1-W.SSL50.5	+A1-X	+P1-SSL50.5							+A1/82.4	Press. acqua calda massima 2 Hot water pressure max 2
+A1-W.SSL50.6	+A1-XS	+P1-SSL50.6							+A1/76.5	Temperatura mandata supply temperature
+A1-W.SSL50.7	+A1-86K1	+P1-SSL50.7							+A1/86.1	Richiesta Pompa acqua calda Demand Hot water pump
+A1-W.SSL50.8	+A1-X	+P1-SSL50.8							+A1/92.1	Messaggio di servizio Pompa acqua calda Operating notification Hot water pump
+A1-W.SSL51.1	+A1-X	+P1-SSL51.1							+A1/92.2	Bypass gas di scarico attivare Exhaust gas bypass activate
+A1-W.SSL51.2	+A1-X	+P1-SSL51.2							+A1/30.5	Segnali Valvola caldaia Signals Boiler flap
+A1-W.SSL51.3	+A1-XE	+P1-SSL51.3							+A1/84.4	Richiesta Valvola caldaia aperto Demand Boiler flap open

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+A1-W.SSL51.4	+A1-X	+P1-SSL51.4							+A1/29.5	Segnali Valvola bypass Signals Bypass flap
+A1-W.SSL51.5	+A1-XE	+P1-SSL51.5							+A1/84.6	Richiesta Valvola bypass aperto Demand Bypass flap open
+A1-W.SSL51.6	+A1-XS	+P1-SSL51.6							+A1/77.7	Temperature di ritorno Uscita Heating water return temperature Output
+A1-W.SSL54.1	+A1-X	+P1-SSL54.1							+A1/78.0	Pressione acqua raffreddamento carica min Charge cooling water pressure min
+A1-W.SSL54.2	+A1-86K2	+P1-SSL54.2							+A1/86.2	Richiesta Pompa acqua raffreddamento carica Demand Charge cooling water pump
+A1-W.SSL54.3	+A1-X	+P1-SSL54.3							+A1/92.3	Messaggio di servizio Pompa acqua raffreddamento carica Operating notification Charge cooling water pump
+A1-W.SSL54.4	+A1-86K3	+P1-SSL54.4							+A1/86.3	Richiesta Ventilatore raffreddamento carica 1 Demand Charge cooling fan 1
+A1-W.SSL54.5	+A1-86K4	+P1-SSL54.5							+A1/86.4	Richiesta Ventilatore raffreddamento carica 2 Demand Charge cooling fan 2
+A1-W.SSL54.6	+A1-86K5	+P1-SSL54.6							+A1/86.5	Richiesta Ventilatore raffreddamento carica 3 Demand Charge cooling fan 3
+A1-W.SSL54.7	+A1-86K6	+P1-SSL54.7							+A1/86.6	Richiesta Ventilatore raffreddamento carica 4 Demand Charge cooling fan 4
+A1-W.SSL54.8	+A1-86K7	+P1-SSL54.8							+A1/86.7	Richiesta Ventilatore raffreddamento carica 5 Demand Charge cooling fan 5
+A1-W.SSL54.9	+A1-86K8	+P1-SSL54.9							+A1/86.8	Richiesta Ventilatore raffreddamento carica 6 Demand Charge cooling fan 6
+A1-W.SSL54.10	+A1-87K1	+P1-SSL54.10							+A1/87.3	Richiesta Ventilatore raffreddamento carica 7 Demand Charge cooling fan 7
+A1-W.SSL54.11	+A1-87K2	+P1-SSL54.11							+A1/87.4	Richiesta Ventilatore raffreddamento carica 8 Demand Charge cooling fan 8
+A1-W.SSL54.12	+A1-XS	+P1-SSL54.12							+A1/77.5	Acqua raffreddamento carica Temperatura Charge cooling water Temperature
+A1-W.SSL54.14	+A1-X	+P1-SSL54.14							+A1/92.7	Riserva Spare
+A1-W.SSL55.1	+A1-X	+P1-SSL55.1							+A1/78.3	Pressione min: Circuito di raffreddamento Pressure min: Cooling circuit
+A1-W.SSL55.2	+A1-XS	+P1-SSL55.2							+A1/76.3	Temperatura ritorno a valle di refrigeratore Return temperature after cooler
+A1-W.SSL55.3	+A1-XH	+P1-SSL55.3							+A1/22.1	Valvola di regolazione Circuito di raffreddamento Regulator valve Cooling circuit
+A1-W.SSL55.4	+A1-88K1	+P1-SSL55.4							+A1/88.1	Richiesta pompa dell'acqua di raffreddamento Demand emergency cooling water pump
+A1-W.SSL55.5	+A1-X	+P1-SSL55.5							+A1/92.3	pompa dell'acqua di raffreddamento Servizio emergency cooling water pump Operation
+A1-W.SSL55.6	+A1-88K2	+P1-SSL55.6							+A1/88.2	Richiesta Ventilatore d'emergenza 1 Demand Dump radiator 1
+A1-W.SSL55.7	+A1-88K3	+P1-SSL55.7							+A1/88.3	Richiesta Ventilatore d'emergenza 2 Demand Dump radiator 2
+A1-W.SSL55.8	+A1-88K4	+P1-SSL55.8							+A1/88.4	Richiesta Ventilatore d'emergenza 3 Demand Dump radiator 3
+A1-W.SSL55.9	+A1-88K5	+P1-SSL55.9							+A1/88.5	Richiesta Ventilatore d'emergenza 4 Demand Dump radiator 4
+A1-W.SSL55.10	+A1-88K6	+P1-SSL55.10							+A1/88.6	Richiesta Ventilatore d'emergenza 5 Demand Dump radiator 5
+A1-W.SSL55.11	+A1-88K7	+P1-SSL55.11							+A1/88.7	Richiesta Ventilatore d'emergenza 6 Demand Dump radiator 6
+A1-W.SSL55.12	+A1-88K8	+P1-SSL55.12							+A1/88.8	Richiesta Ventilatore d'emergenza 7 Demand Dump radiator 7

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Sommario dei cavi
Cable overview

Designazione cavi Cable designation	di from	a to	Tipo cavo cable type	Tube number	Tensione Voltage	Filo Wire	ø	Lunghezza Length	Pagina Page	Testo funzionale function text
+A1-W.SSL55.13	+A1-89K1	+P1-SSL55.13							+A1/89.1	Richiesta Ventilatore d'emergenza 8 Demand Dump radiator 8
+A1-W.SSL55.18	+A1-X	+P1-SSL55.18							+A1/92.5	Disturbo Radiatore di emergenza Failure Dump radiator
+A1-W.SSL56.1	+A1-XS	+P1-SSL56.1							+A1/76.7	Temperatura de la sala Room temperature
+A1-W.SSL56.2	+A1-XS	+P1-SSL56.2							+A1/32.4	Valore nominale Convertitore frequenza Set point Frequency converter
+A1-W.SSL56.3	+A1-XS	+P1-SSL56.3							+A1/32.2	Consenso Convertitore frequenza Release Frequency converter
+A1-W.SSL56.4	+A1-XS	+P1-SSL56.4							+A1/32.2	Richiesta Giri massima Demand Speed max
+A1-W.SSL56.5	+A1-XS	+P1-SSL56.5							+A1/32.3	Ventilazione sala macchina disturbo Engine room ventilation failure
+A1-W.SSL56.22	+A1-XS	+P1-SSL56.22							+A1/33.4	Valore nominale Convertitore frequenza Set point Frequency converter
+A1-W.SSL56.23	+A1-XS	+P1-SSL56.23							+A1/33.3	Consenso Convertitore frequenza Release Frequency converter
+A1-W.SSL56.25	+A1-XS	+P1-SSL56.25							+A1/33.3	Ventilazione sala macchina disturbo Engine room ventilation failure
+A1-W.SSL56.31	+A1-XS	+P1-SSL56.31							+A1/33.2	Richiesta Giri massima Demand Speed max
+A1-W.SSL56.32	+A1-XS	+P1-SSL56.32							+A1/33.5	Servizio: Ventilazione sala macchina Operation: Engine room ventilation
+A1-W.SSL56.36	+A1-XH	+P1-SSL56.36							+A1/34.7	Collegamento equipotenziale Equipotential bonding
+A1-W.SSL56.41	+A1-XS	+P1-SSL56.41							+A1/34.2	Richiesta Giri massima Demand Speed max
+A1-W.SSL56.42	+A1-XS	+P1-SSL56.42							+A1/34.4	Valore nominale Convertitore frequenza Set point Frequency converter
+A1-W.SSL56.43	+A1-XS	+P1-SSL56.43							+A1/34.3	Consenso Convertitore frequenza Release Frequency converter
+A1-W.SSL56.45	+A1-XS	+P1-SSL56.45							+A1/34.3	Ventilazione sala macchina disturbo Engine room ventilation failure
+A1-W.SSL57.1	+A1-XE	+P1-SSL57.1							+A1/31.4	Richiesta Pompa olio fresco Demand Freshoil pump
+A1-W.SSL57.2	+A1-XE	+P1-SSL57.2							+A1/31.8	Richiesta Pompa olio usato Demand Waste oil pump
+A1-W.SSL57.3	+A1-X	+P1-SSL57.3							+A1/31.3	Olio fresco min Freshoil min
+A1-W.SSL57.4	+A1-X	+P1-SSL57.4							+A1/31.7	Serbatoio olio usato massima Waste oil tank max
+A1-W.SSL57.5	+A1-X	+P1-SSL57.5							+A1/31.2	Olio fresco massima Freshoil max
+A1-W.SSL57.6	+A1-X	+P1-SSL57.6							+A1/31.1	Interruttore Pompa olio fresco Switch Freshoil pump
+A1-W.SSL57.7	+A1-X	+P1-SSL57.7							+A1/31.5	Interruttore Olio usato Switch Waste oil
+A1-W.SSL58.1	+A1-X	+P1-SSL58.1							+A1/93.1	Richiesta Compressore gas --> Torcia Demand Gas compressor --> Flare
+A1-W.SSL58.2	+A1-X	+P1-SSL58.2							+A1/93.2	Disturbo: Compressore gas Failure: Gas compressor
+A1-W.SSL75.1	+A1-XE	+P1-SSL75.1							+A1/12.4	Tensione de la Trasformatore Transformer voltage
+A1-W.SSL84.1	+A1-X	+P1-SSL84.1							+A1/95.5	Alternatore: Protezione scatto Generator: Protection tripped

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			Desig.	Streiter Daniela				Suffix	+ U
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 28
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+U/2	Foglio del titolo / copertina Title page / cover sheet	
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+U/4	Schema elettrica Versione Electric wiring diagram Version	
+U/5	E-Schema Alternatore E-Diagram Generator	
+U/6	Protezione: Alternatore Protection: Generator	
+U/7	Aggiustamenti Disaccoppiamento rete Adjustments Mains disconnection device	
+U/8	Passaggio Gangway	
+U/9	Foglio di coperta Quadro Overview Panels	
+U/10	Collegamento equipotenziale Equipotential bonding	
+U/11	Schema bus XT4 Gruppo Bus diagram XT4 Engine	
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+B
Part reference list

Condizioni limite dei motori a gas GE Jenbacher, vedere IT n.: 1100-0110
For boundary conditions for GE Jenbacher gas engines, see TI no.: 1100-0110

Con riserva di modifiche alla costruzione
Design changes reserved.

Con riserva di modifiche nelle bozze.
We reserve the right to change draft plans.

Questi schemi sono stati creati su un sistema CAE. Ogni modifica può essere apportata esclusivamente da GE Jenbacher utilizzando i parametri originali.
These drawings have been prepared on a CAE system. Changes may only be made by GE Jenbacher using the parameters of the original.

I numeri relativi all'attribuzione dei componenti si riferiscono ai numeri della lista interfaccia e dello schema tecnico
The numbers in the part reference list are in relation with the numbers in the Interface-list and the Technical schema

J T132 00 03

Tutti i cavi tra gruppo e comando relativo devono essere posati con flessibilità..
All cables between the generating set and its control equipment must be of flexible construction..

In fase di montaggio le misure di protezione contro le scariche elettriche, la messa a terra, la compensazione di potenziale devono essere attuate in conformità con le prescrizioni locali del cliente.
The protective measures against electric shocks, earthing and equipotential bonding must be implemented by the customer during assembly in accordance with local regulations.

Nr.
-SSLxx

I numeri nei cerchi o nei triangoli si riferiscono ai numeri della lista dell'interfaccia.
The numbers in circles or boxes refer to the numbers in the interface list.

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+B/4	Per il coordinamento della costruzione Designation of the components	
+B/5	Per il coordinamento della costruzione Designation of the components	

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Interfaccie
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-SSL6	+A1/24.3
-SSL10	+A1/15.4
-SSL13	+A1/14.6
-SSL14	+A1/90.1
-SSL15	+A1/91.1
-SSL17	+A1/90.2
-SSL18	+A1/83.1
-SSL19	+A1/91.2
-SSL20	+A1/90.3
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-SSL22	+A1/90.5
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-SSL31.1	+A1/62.6
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-SSL50.8	+A1/92.1
-SSL51.1	+A1/92.2

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-SSL51.3	+A1/84.4
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-SSL109	+U/5.3
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-SSL204	+A1/74.3
-SSL400	+A1/70.3

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Per il coordinamento della costruzione
Designation of the components

P&ID-TAG	Pagina Page	Componenti Part	Test funzionamento Function text
E.00-M-001 [01]	+M1/22.2	+E1-22M1	Motorino d'avviamento 1 Starter motor 1
E.00-M-001 [02]	+M1/22.4	+E1-22M2	
E.00-PI-025	+M1/54.1	+E1-54B1	Pressione basamento Crankcase pressure
E.00-SI-001	+M1/78.3	+E1-78B2	Albero gomiti (Giri) Trigger Crankshaft (Speed) Trigger
E.00-SI-002	+M1/78.5	+E1-78B3	Albero gomiti (Giri) Reset Crankshaft (Speed) Reset
E.00-SI-005	+M1/78.2	+E1-78B1	Albero a camme Camshaft
E.00-USZ-001	+M1/80.0	+E1-80K1	MORIS Banco A MORIS bank A
E.00-USZ-004	+M1/81.0	+E1-81K1	MORIS Banco B MORIS bank B
E.08-LI-001	+M1/62.7	+E1-62B3	Sensori: Penetrazione acqua Sensor: Water seep into
E.08-M-001	+M1/72.3	+E1-72M1	Actuator Actuator
E.08-PI-001	+M1/53.6	+E1-53B3	Pressione di alimentazione Supercharge pressure
E.08-PI-002	+M1/54.3	+E1-54B2	Pressione di alimentazione P2 Supercharge pressure P2
E.08-TI-001	+M1/56.1	+E1-56B1	Temperatura di carica Charge temperature
E.08-YCI-101	+M1/73.0	+E1-73M1	Valvola bypass del turbo 1 Turbo bypass valve 1
E.14-PI-001	+M1/54.6	+E1-54B3	Precamera: Pressione gas Pre chamber: Gas pressure
G.00-A-001	+G1/5.0	+G1-5G1	Alternatore Generator
G.00-TI-030 [01]	+G1/9.7	+G1-9B7	Temperatura di cuscinetto DE Bearing temperature DE
G.00-TI-030 [02]	+G1/9.8	+G1-9B8	Temperatura di cuscinetto NDE Bearing temperature NDE
G.00-TI-040 [01]	+G1/9.1	+G1-9B1	Temperatura avvolgimenti U Windings temperature U
G.00-TI-040 [02]	+G1/9.2	+G1-9B2	Temperatura avvolgimenti V Windings temperature V
G.00-TI-040 [03]	+G1/9.3	+G1-9B3	Temperatura avvolgimenti W Windings temperature W
G.00-TI-040 [04]	+G1/9.4	+G1-9B4	Temperatura avvolgimenti U Riserva Windings temperature U Spare
G.00-TI-040 [05]	+G1/9.5	+G1-9B5	Temperatura avvolgimenti V Riserva Windings temperature V Spare
G.00-TI-040 [06]	+G1/9.6	+G1-9B6	Temperatura avvolgimenti W Riserva Windings temperature W Spare
M.02-M-001	+M1/13.3	+E1-13M1	Ventilatore di lavaggio Scavenging fan

P&ID-TAG	Pagina Page	Componenti Part	Test funzionamento Function text
M.02-PS-001	+M1/63.7	+E1-63B1	Pressione contra gas di scarico massima Exhaust gas backpressure max
M.02-TI-001	+M1/38.4	+E1-38B1	Temperatura gas di scarico a valle di turbo Exhaust gas temperature after turbocharger
M.02-TI-002	+M1/38.5	+E1-38B2	=
M.02-TS-001	+M1/17.7	+E1-17B1	Temperatura Serranda di lavaggio Temperature Scavenging flap
M.02-YCS-001	+M1/17.0	+E1-17M1	Serranda di lavaggio Scavenging flap
M.03-LI-001	+M1/60.1	+E1-60B1	Livello olio: Motori a gas Oil level: Gas engine
M.03-M-002	+M1/12.3	+E1-12M1	Pompa olio AC Oil pump AC
M.03-M-003	+V1/6.3	+E1-6M1	Pompa olio DC 1 Oil pump DC 1
M.03-PI-001	+M1/53.1	+E1-53B1	Pressione olio Oil pressure
M.03-PI-002	+M1/55.3	+E1-55B2	Pressione diff filtro olio Oil differential pressure
M.03-TI-001	+M1/56.3	+E1-56B2	Temperatura di olio Oil temperature
M.03-YCS-001	+M1/61.2	+E1-61M1	Valvola olio Oil valve
M.04-FS-001	+M1/62.3	+E1-62B2	############ Flow Preheating OK
M.04-M-001	+M1/11.3	+E1-11M1	Pompa di Acqua di raffreddamento motore 1 Engine jacket water pump 1
M.04-M-002	+M1/16.3	+E1-16M1	Pompa preriscaldamento Preheating pump
M.04-PI-001	+M1/53.3	+E1-53B2	Press. acqua di raffreddamento Jacket water pressure
M.04-TI-001	+M1/56.6	+E1-56B3	Temp. acqua di raffreddamento Engine jacket water temperature
M.04-TS-001 [01] M.04-W-002	+M1/15.4	+E1-15E1	Resistenza di riscaldamento Heating elements
M.04-TS-001 [02] M.04-W-002	+M1/15.7	+E1-15E2	=
M.05-TI-001	+M1/57.1	+E1-57B1	Temperatura aria di aspirazione Intake air temperature
M.06-TI-001	+M1/57.3	+E1-57B2	Motori a gas: Acqua di ritorno Temperatura Gas engine: Water return Temperature
M.07-TS-001	+M1/62.1	+E1-62B1	Temperatura massima: Acqua raffreddamento carica 2 Temperature max: Charge cooling water 2
M.07-YTC-001	+M1/75.2	+E1-75M1	Refrigeratore dell'olio Gradino 2 Oil cooler Step 2
P.01-PS-101	+M1/63.1	+P1-63B1	Pressione gas min Rampa di gas 1 Gas pressure min Gas train 1
P.01-PS-103	+M1/63.3	+P1-63B2	Pressione gas massima Rampa di gas 1 Gas pressure max Gas train 1

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Per il coordinamento della costruzione Designation of the components	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ B
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 4
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8			

Per il coordinamento della costruzione
Designation of the components

P&ID-TAG	Pagina Page	Componenti Part	Test funzionamento Function text
P.01-US-101	+M1/69.1	+P1-69K1	Controllo di tenuta gas 1 Gassafety device 1
P.01-YCI-103	+M1/76.0	+E1-76M1	"TECJET 1" "TECJET 1"
P.01-YCZ-103	+M1/70.1	+P1-70M1	Valvola di gas 1 Rampa di gas 1 Gas valve 1 Gas train 1
P.01-YCZ-110	+M1/70.5	+P1-SSL49	Valvola principale del gas Main gas valve
P.02-TI-001	+M1/38.6	+P1-SSL51.10	############ Exhaust gas temperature after Catalyst
P.02-TI-008	+M1/38.8	+P1-SSL51.11	Temperatura gas di scarico a valle di scambiatore di calore gas di scarico
P.02-YCS-002	+A1/29.5	+P1-SSL51.4	Segnali Valvola bypass Signals Bypass flap
P.02-YCS-003	+A1/30.5	+P1-SSL51.2	Segnali Valvola caldaia Signals Boiler flap
P.03-LS-002	+A1/31.7	+P1-SSL57.4	Serbatoio olio usato massima Waste oil tank max
P.03-LS-003	+A1/31.2	+P1-SSL57.5	Olio fresco massima Freshoil max
P.03-LS-013	+A1/31.3	+P1-SSL57.3	Olio fresco min Freshoil min
P.03-S-004	+A1/31.1	+P1-SSL57.6	Interruttore Pompa olio fresco Switch Freshoil pump
P.03-S-005	+A1/31.5	+P1-SSL57.7	Interruttore Olio usato Switch Waste oil
P.04-TI-0xx	+A1/77.7	+P1-SSL51.6	Temperature di ritorno Uscita Heating water return temperature Output
P.06-FS-001	+A1/82.1	+P1-SSL50.1	Portata acqua calda esiste Hot water flow existing
P.06-PS-001	+A1/82.2	+P1-SSL50.2	Press. acqua calda massima Hot water pressure max
P.06-PS-033	+A1/82.4	+P1-SSL50.5	Press. acqua calda massima 2 Hot water pressure max 2
P.06-TI-012	+A1/76.1	+P1-SSL53	Temperature di ritorno Heating water return temperature
P.06-TI-014	+A1/76.5	+P1-SSL50.6	Temperatura mandata supply temperature
P.06-TI-015	+A1/76.3	+P1-SSL55.2	Temperatura ritorno a valle di refrigeratore Return temperature after cooler
P.06-TS-001	+A1/82.3	+P1-SSL50.3	Temp. acqua calda massima Hot water temperature max
P.06-TS-023 [01]	+A1/82.4	+P1-SSL50.4	Temp. acqua calda massima 2 Hot water temperature max 2
P.06-YTC-001	+A1/22.3	+P1-SSL52	Valvola di ritorno Water return valve
P.06-YTC-002	+A1/22.1	+P1-SSL55.3	Valvola di regolazione Circuito di raffreddamento Regulator valve Cooling circuit
P.07-PS-001	+A1/78.1	+P1-SSL54.1	Pressione acqua raffreddamento carica min Charge cooling water pressure min

P&ID-TAG	Pagina Page	Componenti Part	Test funzionamento Function text
P.09-PS-001	+A1/78.3	+P1-SSL55.1	Pressione min: Circuito di raffreddamento Pressure min: Cooling circuit
P.14-PI-102	+M1/55.1	+E1-55B1	Precamera Rampa di gas: Pressione gas Pre chamber Gas train: Gas pressure
P.14-YCZ-101	+M1/70.3	+P1-70M2	Valvole gas precamera Pre chamber gas valves
P.14-YCZ-102	+M1/70.4	+P1-70M3	=
P.17-JI-001 [01]	+A1/21.2	+A1-21K1	Sistema allarma fumi Smoke alarm device
P.17-JI-100 [01]	+A1/20.1	+P1-20B1	Sensore di gas 1 Gas sensor 1
P.17-JI-100 [02]	+A1/20.8	+P1-20B2	Sensore di gas 2 Gas sensor 2
P.17-JI-200	+A1/20.0	+A1-20K1	Dispositivo allarme di gas Gas detecting device
P.17-JI-201	+A1/20.5	+A1-20K5	=
P.17-JI-210	+A1/21.2	+P1-21B1	Sensore fumo Smoke detector
P.17-JI-211	+A1/21.2	+P1-21B2	=
P.17-TI-010	+A1/76.7	+P1-SSL56.1	Temperatura de la sala Room temperature

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+G1
Generator 1

Condizioni limite dei motori a gas GE Jenbacher, vedere IT n.: 1100-0110
For boundary conditions for GE Jenbacher gas engines, see TI no.: 1100-0110

Con riserva di modifiche alla costruzione
Design changes reserved.

Con riserva di modifiche nelle bozze.
We reserve the right to change draft plans.

Questi schemi sono stati creati su un sistema CAE. Ogni modifica può essere apportata esclusivamente da GE Jenbacher utilizzando i parametri originali.
These drawings have been prepared on a CAE system. Changes may only be made by GE Jenbacher using the parameters of the original.

I numeri relativi all'attribuzione dei componenti si riferiscono ai numeri della lista interfaccia e dello schema tecnico
The numbers in the part reference list are in relation with the numbers in the Interface-list and the Technical schema

J T132 00 03

Tutti i cavi tra gruppo e comando relativo devono essere posati con flessibilità..
All cables between the generating set and its control equipment must be of flexible construction..

In fase di montaggio le misure di protezione contro le scariche elettriche, la messa a terra, la compensazione di potenziale devono essere attuate in conformità con le prescrizioni locali del cliente.
The protective measures against electric shocks, earthing and equipotential bonding must be implemented by the customer during assembly in accordance with local regulations.

Nr.

-SSLxx

I numeri nei cerchi o nei triangoli si riferiscono ai numeri della lista dell'interfaccia.
The numbers in circles or boxes refer to the numbers in the interface list.

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Indice
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+G1/2	Indice Diagram index	
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+G1/4	Sorveglianza: Alternatore Monitoring: Generator	
+G1/5	Foglio di coperta Alternatore Overview Generator	
+G1/6	Collegamento potenza Power connection	
+G1/7	Collegamento equipotenziale Equipotential bonding	
+G1/8	Trasformatore di corrente Current transformer	
+G1/9	Temperatura avvolgimenti / Temperatura di cuscinetto Windings temperature / Bearing temperature	
+G1/10	Regolatore Controller	
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+G1/15	Schema dei collegamenti +G1-X3 Terminal connection diagram +G1-X3	

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Foglio di coperta Morsettiere
Overview Terminal strips

+G1 -X .

- . — Morsetti - Alternatore / Terminals - Generator
- -X — Morsettiera generale / Terminal strip general
- +G1 — Alternatore / Generator

-X = Morsetti generale
Terminals general

-X2 = Morsetti Regolatore / Controllo vibrazione
Terminals Controller / Vibration sensor

-X3 = Morsetti Temperatura avvolgimenti / Trasformatore di corrente
Terminals Windings temperature / Current transformer

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			Desig.	Streiter Daniela				Suffix	+ G1
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Sorveglianza: Alternatore

Monitoring: Generator

Temperatura avvolgimenti LV (H): Windings temperature LV (H): Allarma: 140°C Warning: 140°C fermo: 155°C Shut down: 155°C	Temperatura avvolgimenti MV (F): Windings temperature MV (F): Allarma: 140°C Warning: 140°C fermo: 145°C Shut down: 145°C
Standard: Standard: Cuscinetto DE: Bearing DE: Allarma: 85°C Warning: 85°C fermo: 90°C Shut down: 90°C Cuscinetto NDE: Bearing NDE: Allarma: 75°C Warning: 75°C fermo: 80°C Shut down: 80°C	DIG140: DIG142: Cuscinetto DE: Bearing DE: Allarma: 75°C Warning: 75°C fermo: 90°C Shut down: 90°C Cuscinetto NDE: Bearing NDE: Allarma: 75°C Warning: 75°C fermo: 90°C Shut down: 90°C

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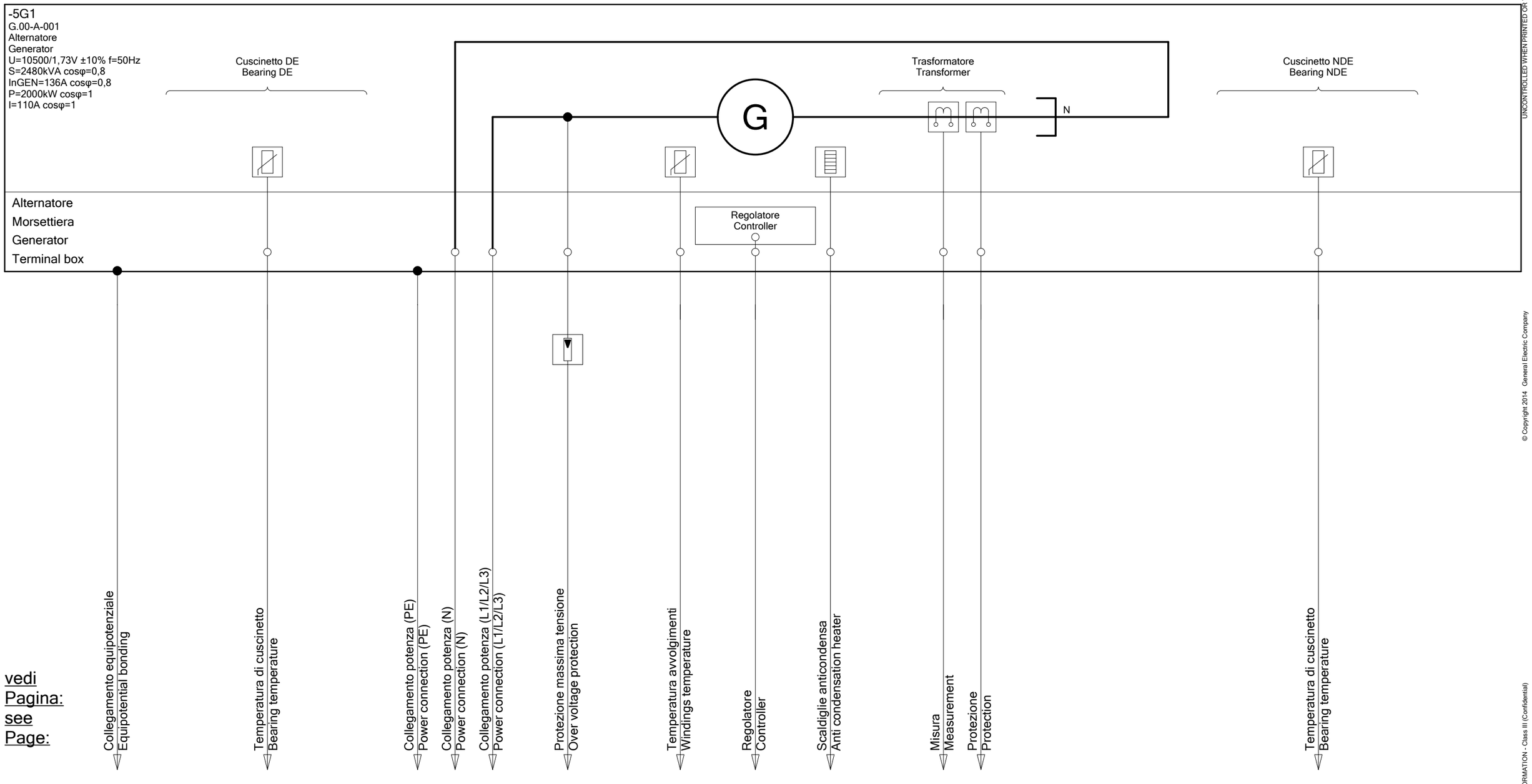

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			Desig.	Streiter Daniela				Suffix	+ G1
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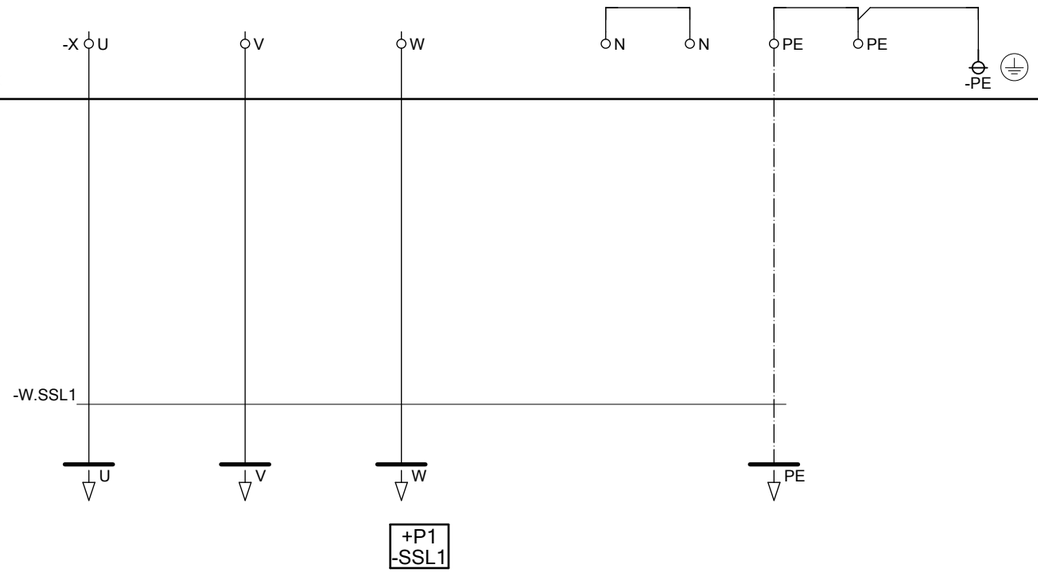
IT

Alternatore
Morsettiera
Generator
Terminal box



ONLY HIGH FLEXIBLE
SINGLE CORE CABLE
ARE PERMITTED
See TA 1100-0112

Collegamento potenza
Power connection

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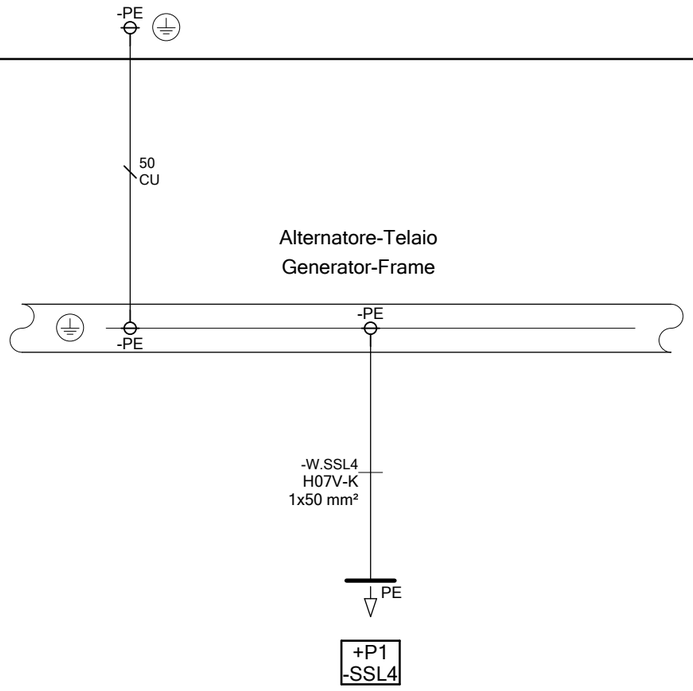
Alternatore
Morsettiera
Generator
Terminal box

Vite di presa di massa Telaio del alternatore
Grounding screw Generator base



Collegamento equipotenziale
Equipotential bonding

6

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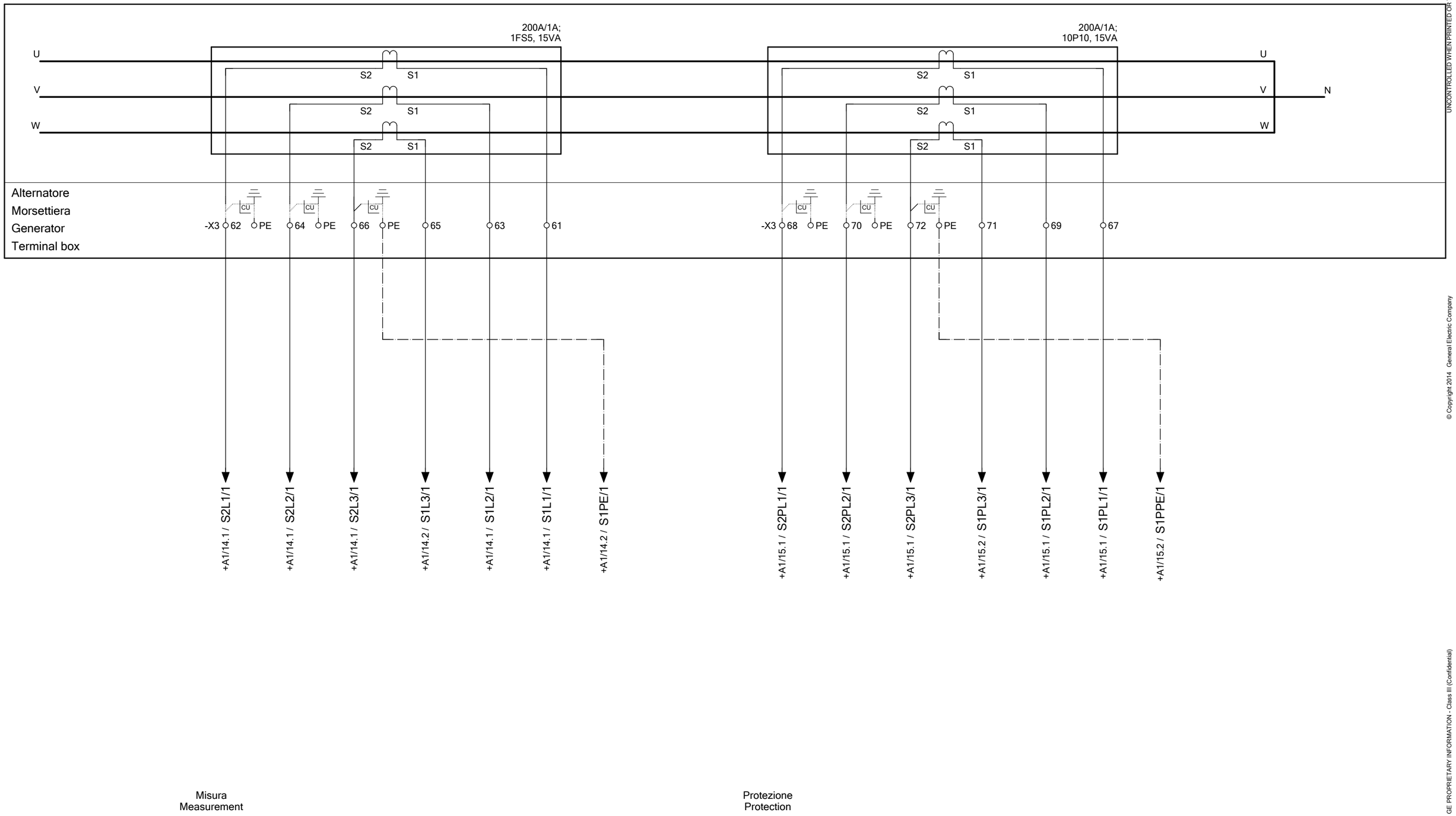

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			Desig.	Streiter Daniela				Suffix	+ G1
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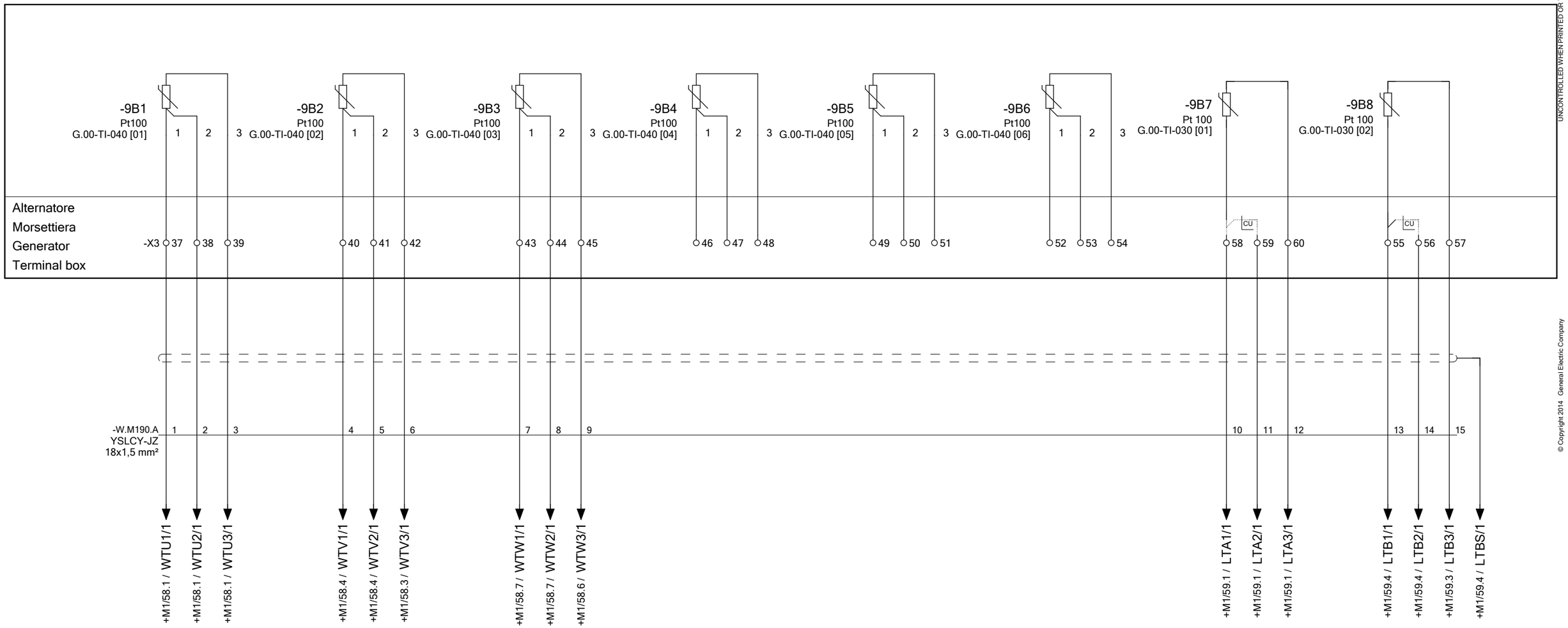

Temperatura avvolgimenti V
Windings temperature V

Temperatura avvolgimenti U Riserva
Windings temperature U Spare

Temperatura avvolgimenti W Riserva
Windings temperature W Spare

Temperatura di cuscinetto NDE
Bearing temperature NDE

Temperatura avvolgimenti U
Windings temperature U

Temperatura avvolgimenti W
Windings temperature W

Temperatura avvolgimenti V Riserva
Windings temperature V Spare

Temperatura di cuscinetto DE
Bearing temperature DE

8 10

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Temperatura avvolgimenti / Temperatura di cuscinetto Windings temperature / Bearing temperature	SO-Nr. Project: 22553	=
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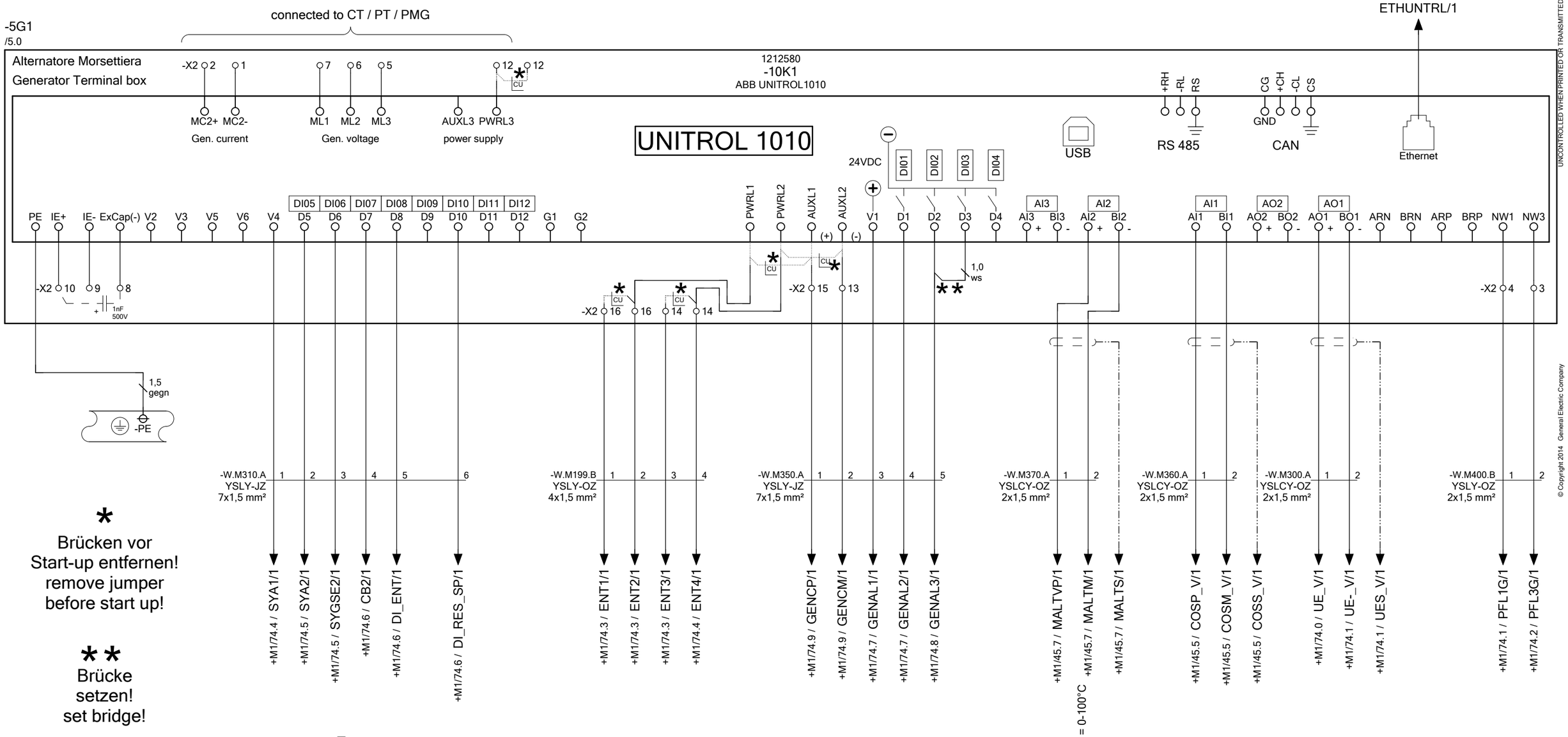

*
Brücken vor
Start-up entfernen!
remove jumper
before start up!

**
Brücke
setzen!
set bridge!

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			Desig.	Streiter Daniela				Suffix	+ G1
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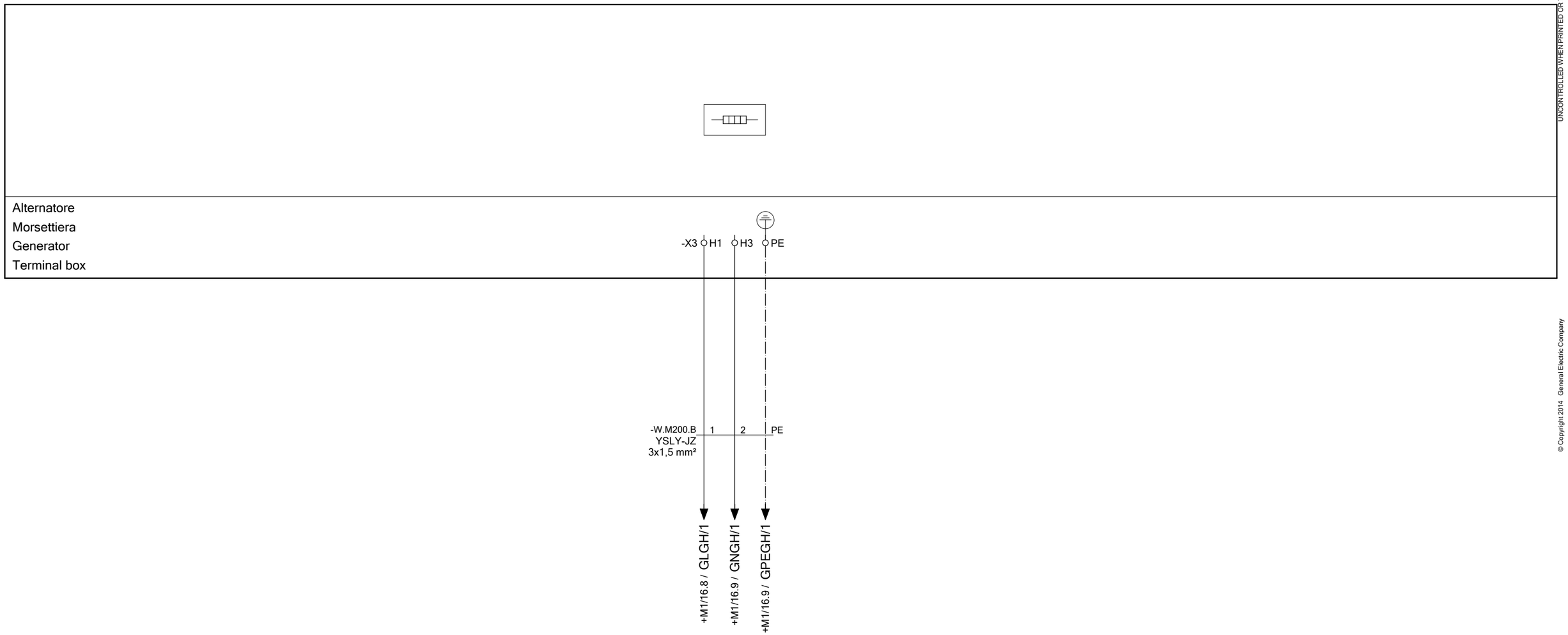
/5.0



Scaldiglie anticondensa
Anti condensation heater

10

12

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Scaldiglie anticondensa Anti condensation heater	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ G1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 11
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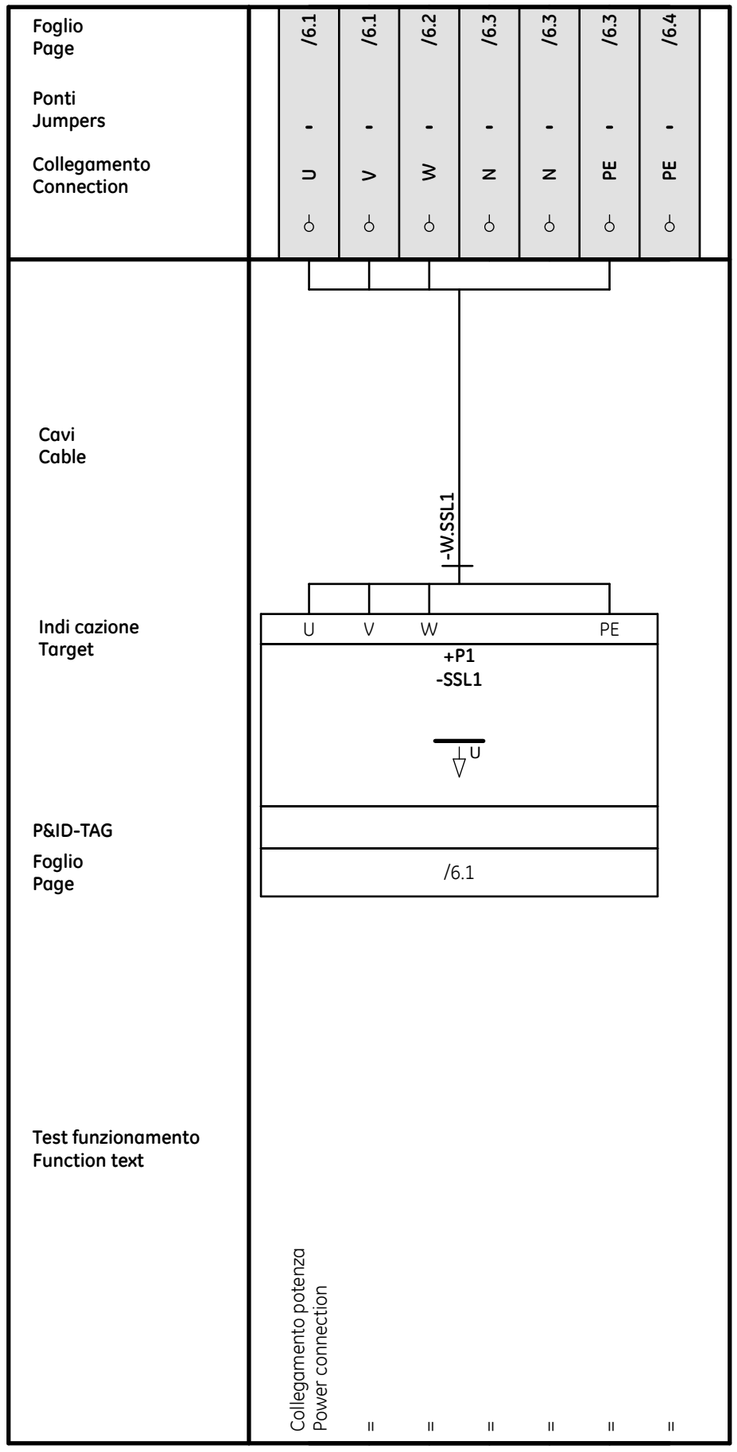
Schema dei collegamenti
Terminal connection diagram

+G1-X



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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +G1-X Terminal connection diagram +G1-X	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ G1
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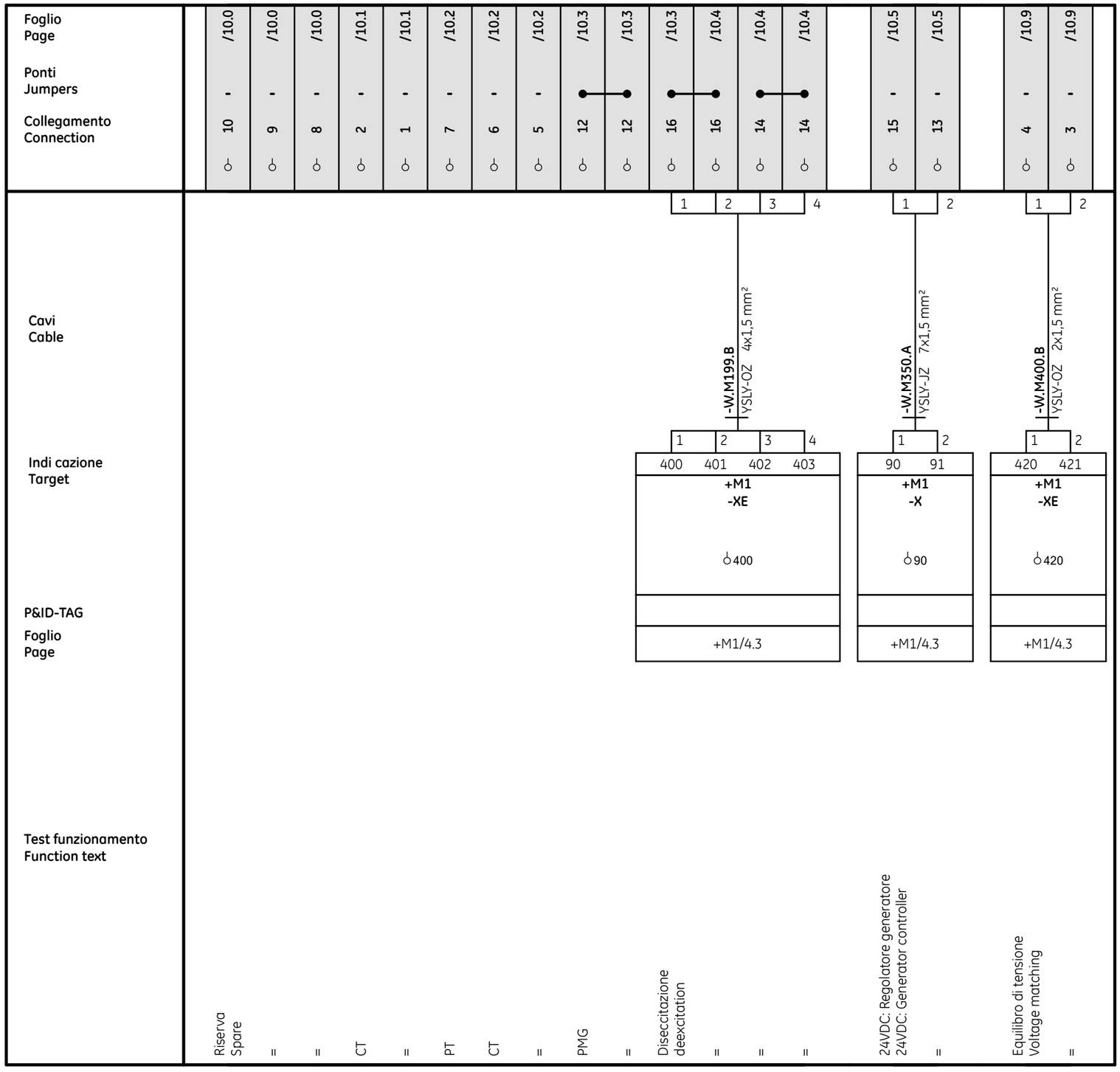
Schema dei collegamenti
Terminal connection diagram

+G1-X2



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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +G1-X2 Terminal connection diagram +G1-X2	SO-Nr. Project: 22553	=
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Schema dei collegamenti
Terminal connection diagram

+G1-X3

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Ponti Jumpers	•	•	•	•	•	•	-	-	-	•	•	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collegamento Connection	62	PE	64	PE	66	PE	65	63	61	68	PE	70	PE	72	PE	71	69	67	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51

Cavi Cable

+A1-W.M4.A YSLY-JZ 7x2,5 mm²

+A1-W.M7.C YSLY-JZ 7x2,5 mm²

-W.M190.A YSLCY-JZ 18x1,5 mm²

Indi cazione Target

701 702 703 PE 706 705 704 711 712 713 PE 716 715 714

+A1 -XE

701

632 631 630 635 634 633 638 637 636

+M1 -XS

632

P&ID-TAG

Foglio Page

+A1/4.3

+M1/4.3

Test funzionamento Function text

Misura Measurement

Protezione Protection

Temperatura avvolgimenti U Windings temperature U

Temperatura avvolgimenti V Windings temperature V

Temperatura avvolgimenti W Windings temperature W

Temperatura avvolgimenti U Riserva Windings temperature U Spare

Temperatura avvolgimenti V Riserva Windings temperature V Spare

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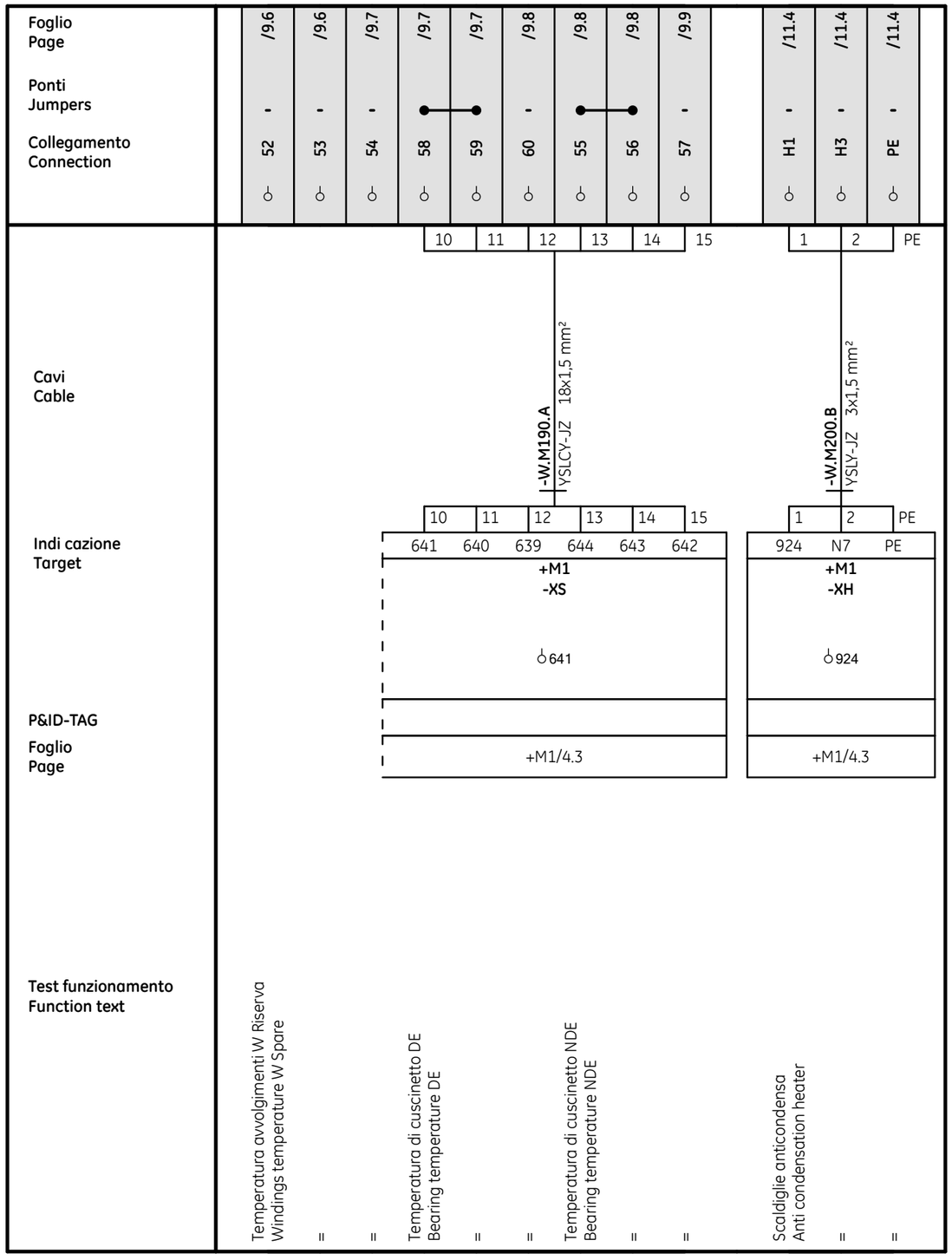
Schema dei collegamenti
Terminal connection diagram

+G1-X3



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+M1/1

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			Desig.	Streiter Daniela				Suffix	+ G1
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Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric B			

+M1
Module interface cubicle 1

Condizioni limite dei motori a gas GE Jenbacher, vedere IT n.: 1100-0110
For boundary conditions for GE Jenbacher gas engines, see TI no.: 1100-0110

Con riserva di modifiche alla costruzione
Design changes reserved.

Con riserva di modifiche nelle bozze.
We reserve the right to change draft plans.

Questi schemi sono stati creati su un sistema CAE. Ogni modifica può essere apportata esclusivamente da GE Jenbacher utilizzando i parametri originali.
These drawings have been prepared on a CAE system. Changes may only be made by GE Jenbacher using the parameters of the original.

I numeri relativi all'attribuzione dei componenti si riferiscono ai numeri della lista interfaccia e dello schema tecnico
The numbers in the part reference list are in relation with the numbers in the Interface-list and the Technical schema

J T132 00 03

Tutti i cavi tra gruppo e comando relativo devono essere posati con flessibilità..
All cables between the generating set and its control equipment must be of flexible construction..

In fase di montaggio le misure di protezione contro le scariche elettriche, la messa a terra, la compensazione di potenziale devono essere attuate in conformità con le prescrizioni locali del cliente.
The protective measures against electric shocks, earthing and equipotential bonding must be implemented by the customer during assembly in accordance with local regulations.

Nr.
-SSLxx

I numeri nei cerchi o nei triangoli si riferiscono ai numeri della lista dell'interfaccia.
The numbers in circles or boxes refer to the numbers in the interface list.

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			Desig.	Streiter Daniela				Suffix	+ M1
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+M1/9	Distribuzione 24VDC Distribution 24VDC	
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+M1/11	Pompa di Acqua di raffreddamento motore Engine jacket water pump	
+M1/12	Pompa olio AC Oil pump AC	
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Standard *Standard*	**IEC 61439-2**	*Protezione* *Protection*	IP54	(Esterno) : Installazione in ambienti interni (Sala quadri) (External) : Indoor installation (control cabinet room)	IP2X / IPXXB (interno) (internal)
Architettura rete (Alimentazione) *Net form (supply)*	TN-S	*Protezione di base* *Basic protection*	Protezione data dall'alloggiamento Protection by housing	*Protezione in caso di guasti* *Fault protection*	Protezione data da disinserimento automatico Protection through automatic power supply cut-off

Tensione nominale *Rated voltage*	Un = 400V	*Corrente nominale (Apparecchiature assiemate di protezione e di manovra)* *Rated current (Switchgear assembly)*	InA = 35A
Tensione isolamento nominale (AC/DC) *Rated insulation voltage (AC/DC)*	Ui = 400V / 30V	*Fattore di carico nominale (Apparecchiature assiemate di protezione e di manovra)* *Rated diversity factor (Switchgear assembly)*	RDF = 1
Resistenza alla tensione impulsiva nominale *Rated impulse withstand voltage*	Uimp = 2,5kV (Cat. II)	*Resistenza nominale corrente di cresta (Apparecchiature assiemate di protezione e di manovra)* *Rated peak withstand current (Switchgear assembly)*	Ipk = 13,3kA
Frequenza nominale *Rated frequency*	fn = 50Hz		
Corrente di corto circuito nominale, condizionato (Fusibile) *Rated short-circuit current, conditional (Back-up fuse)*	Icc = 100kA	*Fusibile consigliato* *Recommended fuse*	Siemens NH 3NAx (IEC 60269-3-1)
Caratteristiche di limitazione di corrente (Fusibile) *Current-limitation characteristics (Back-up fuse)*	I²t = 6500A²s		
Corrente nominale (Circuiti elettrici) *Rated current (Electric circuits)*	Inc = Se non indicato diversamente: corrente nominale dell'organo di protezione o valore massimo impostato dell'interruttore di circuito motore If no specific value is given: rated voltage of the protective device or maximum current-setpoint of the motor circuit breaker		
Circuiti di corrente ausiliari *Auxiliary power circuits*	Vaux = 24VDC		
Compatibilità elettromagnetica *electromagnetic compatibility*	*CEM Immunità* *EMC Immunity* Environment A		
	CEM Emissione errori *EMC Emission* Environment A		
Ampiezza oscillazione frequenza statica *Static frequency oscillation width*	+4 / -6%	*Tipo di installazione* *Installation type*	stazionario stationary
Deviazione tensione statica *Static voltage difference*	± 10%	*Altezza installazione* *Installation site height*	< 2000m
Deviazione frequenza dinamica *Dynamic frequency difference*	+18 / -25%	*temperatura ambientale* *ambient temperature*	-5°C - +40°C
Tempo regolazione frequenza *Frequency control settling time*	10 sec	*Temperatura aria ambiente media massima entro 24h* *average maximum ambient temperature within 24h*	+35°C
Deviazione tensione dinamica *Dynamic voltage difference*	+35 / -25%	*Umidità relativa aria* *Relative humidity*	< 70%
Tempo regolazione tensione *Voltage control settling time*	10 sec	*Grado di imbrattamento* *Degree of fouling*	3

⚠ EN 61439 § 5.6.g:

I lavori sul quadro elettrico possono essere eseguiti esclusivamente a cura di elettricisti

Work on and inside the switchgear cabinet should only be carried out by electrical specialists

2.1

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 3
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Foglio di coperta Morsettiere

Overview Terminal strips

-X:

-X = Morsetti
generale
Terminals
general

-XH:

-XH = Morsetti
Ausiliari
Terminals
Auxiliaries

-XS:

-XS = Morsetti
Cavo schermato
Terminals
Shielded cable

-XS1:

-XS1 = Morsetti
Accesione 185V
Terminals
Ignition 185V

-XP:

-XP = Morsetti
Punto distribuzione +24VDC
Terminals
Base +24VDC

-XM:

-XM = Morsetti
Punto distribuzione - 0VDC
Terminals
Base - 0VDC

-XE:

-XE = Morsetti
Tensione Esterno
Terminals
Voltage External

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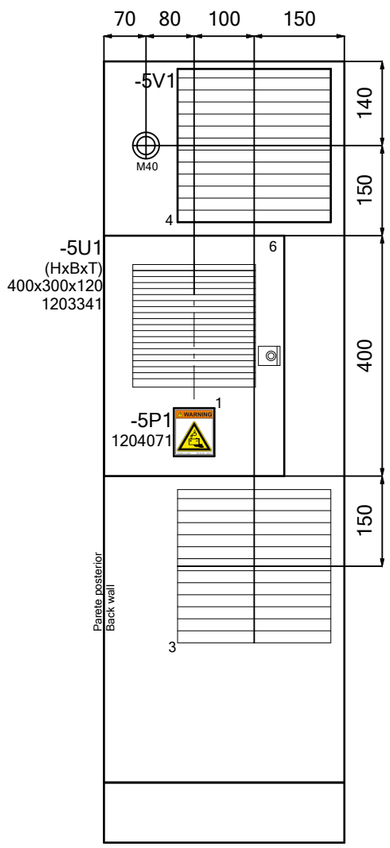
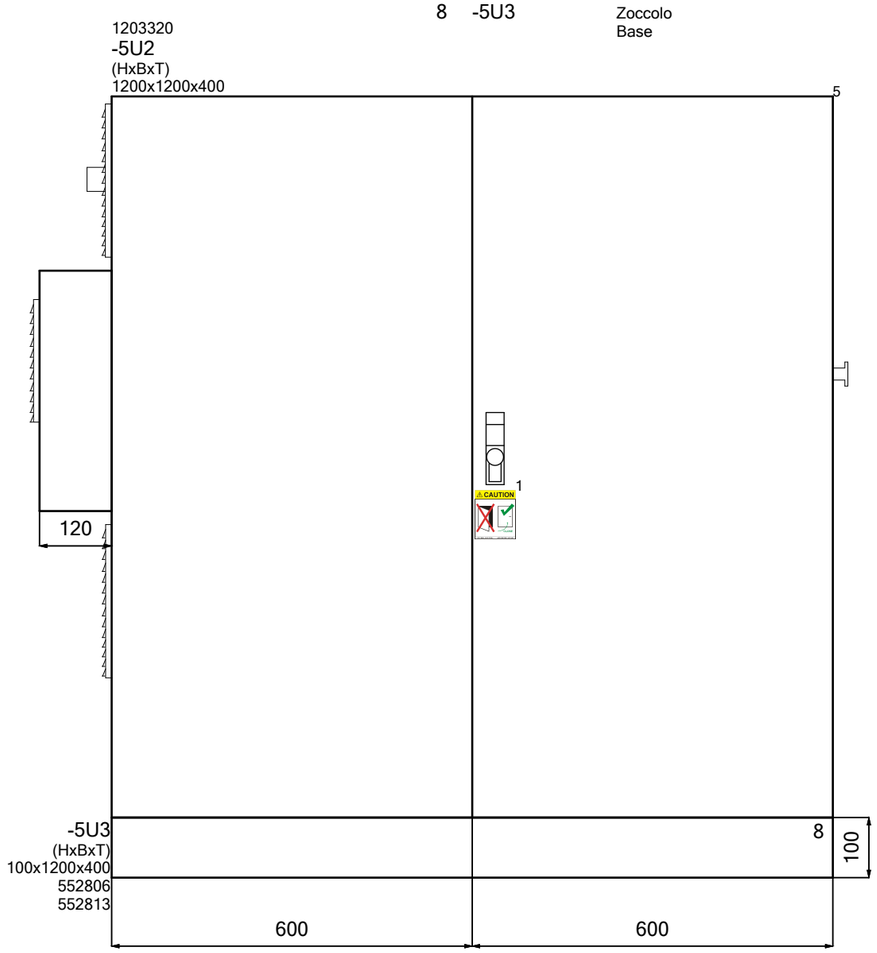
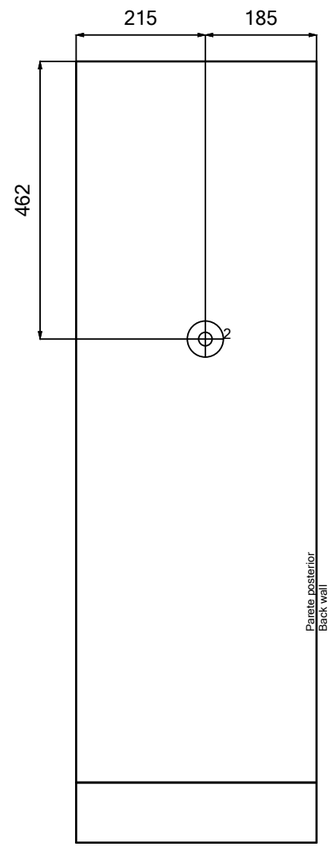
1	...	etichetta di attenzione caution label
2	-66S1	Arresto di emergenza Tasto Emergency stop Push button
3	-16M1	Ventilatore del quadro Panel fan
4	-5V1	Filtro dell'aria viziata outlet filter
5	-5U2	Quadro Panel
6	-5U1	Scatola batteria Battery box
8	-5U3	Zoccolo Base

Vista pagine sinistra
Side view left





Vista pagine destra
Side view right



Colori:
Colour:

Quadro RAL7035
Panel RAL7035

Uscita cavi: bassa
Cable entry: bottom

Peso:
Weight:

~180kg

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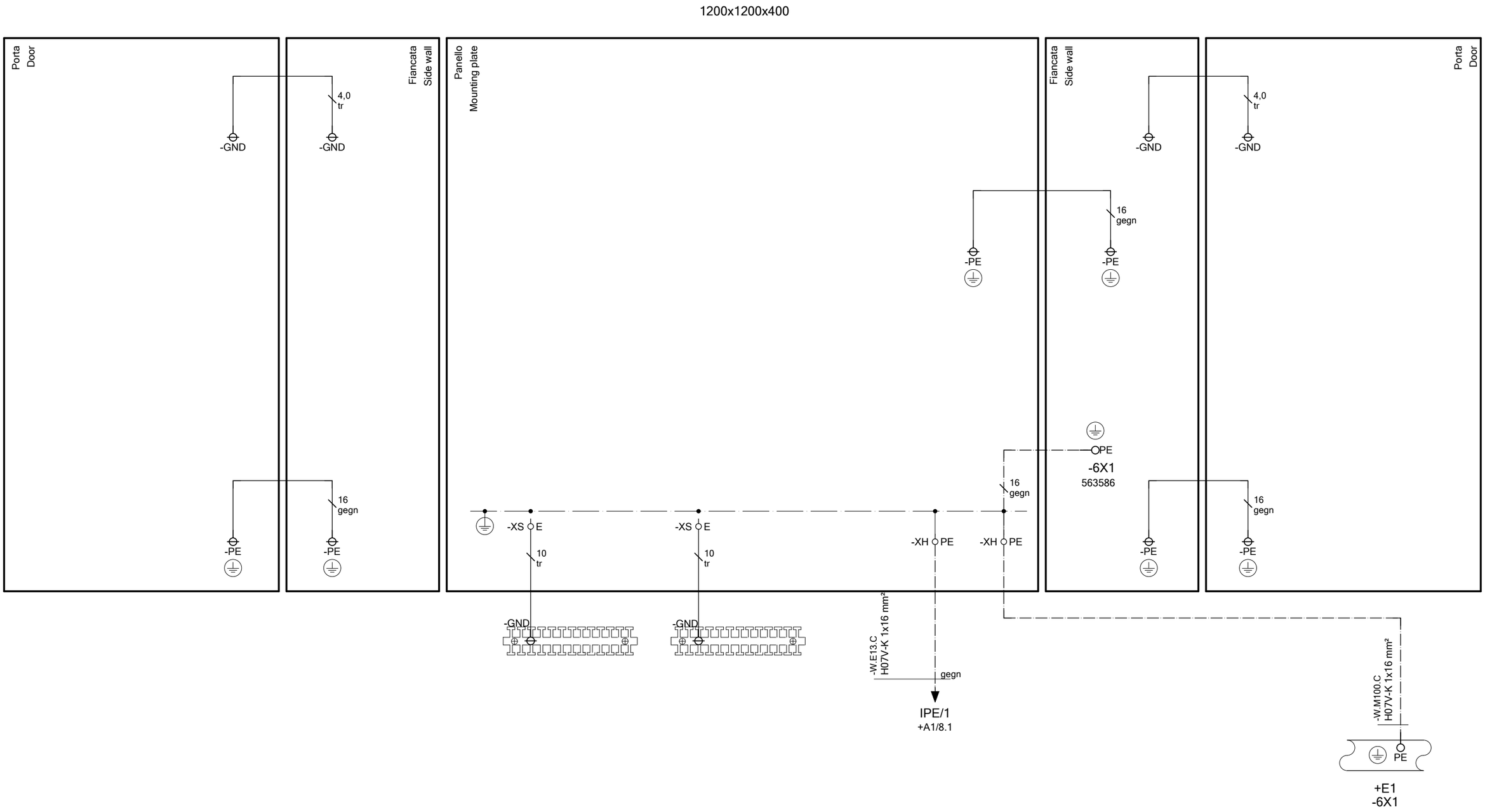
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Quadro interfaccia modulo Module interface cubicle	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 5
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_51_1.emp			



Collegamento equipotenziale Interfaccia modulo
Equipotential bonding Module interface

Sbarra di schermo 1
Shield bar 1

Sbarra di schermo 2
Shield bar 2

Telaio Gruppo
Frame Engine

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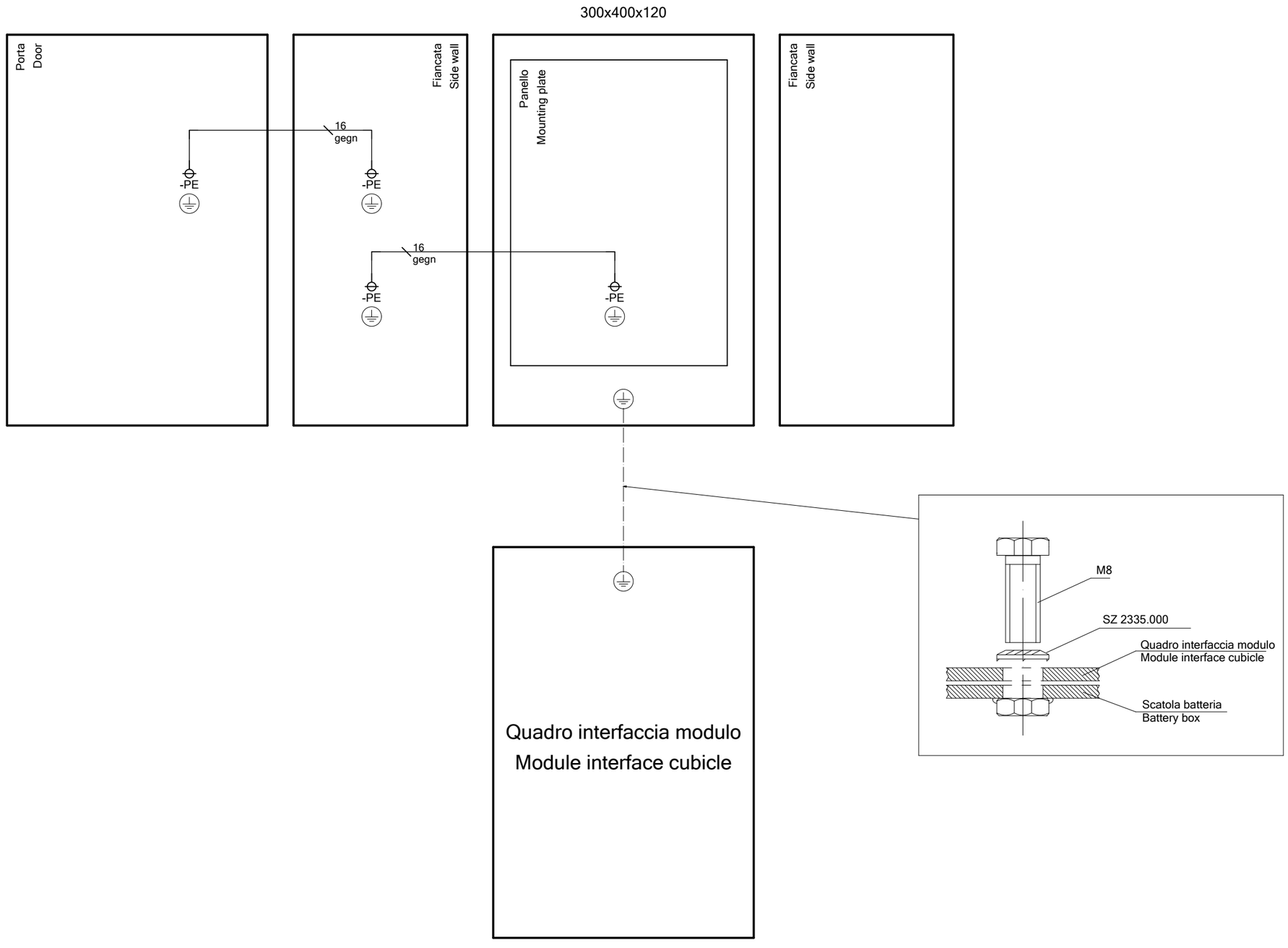
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Presa di massa/Collegamento a terra Earthing/Grounding	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 6
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_52.emp			



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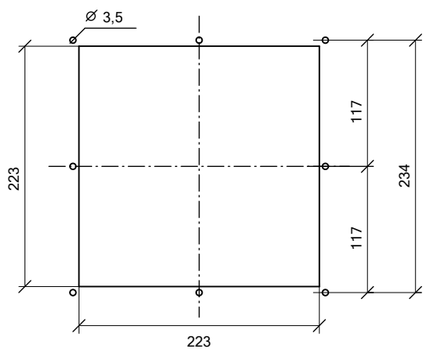
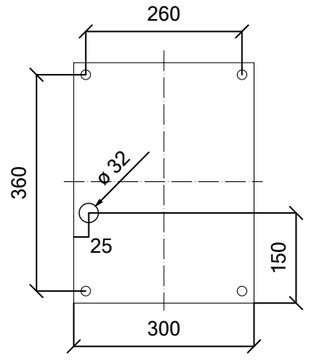
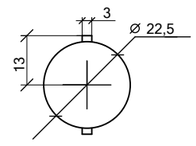
Ventilatore
Fan



Scatola batteria
Battery box



Arresto di emergenza
Emergency stop



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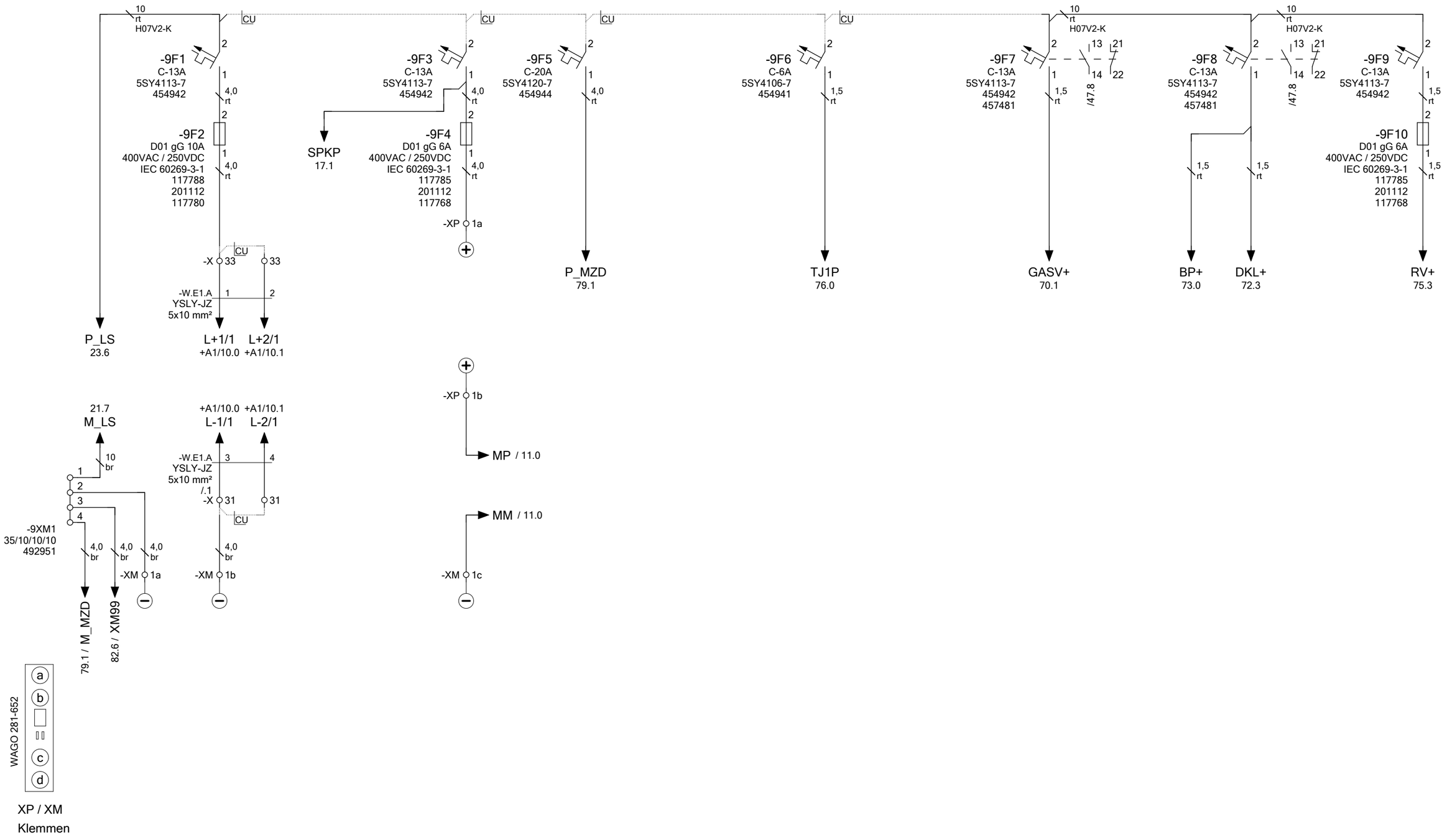
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sfinestrature de la porta +M Door cut out +M	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 8
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_108.emp			



24VDC Alimentazione Quadro comando gruppo
24VDC Supply Module control panel

+ Punto distribuzione
+ Base

Alimentazione Valvola bypass del turbo
Supply Turbo bypass valve

Carica batterie
Charging unit

Serranda di lavaggio
Scavenging flap

Alimentazione Accesione
Supply Ignition

Miscelatore di gas TECJET 1
Air-gas mixer TECJET 1

Alimentazione Valvole di gas
Supply Gas valves

Alimentazione Valvola a farfalla
Supply Throttle valve

Alimentazione Valvola 3 vie
Supply 3-way valve

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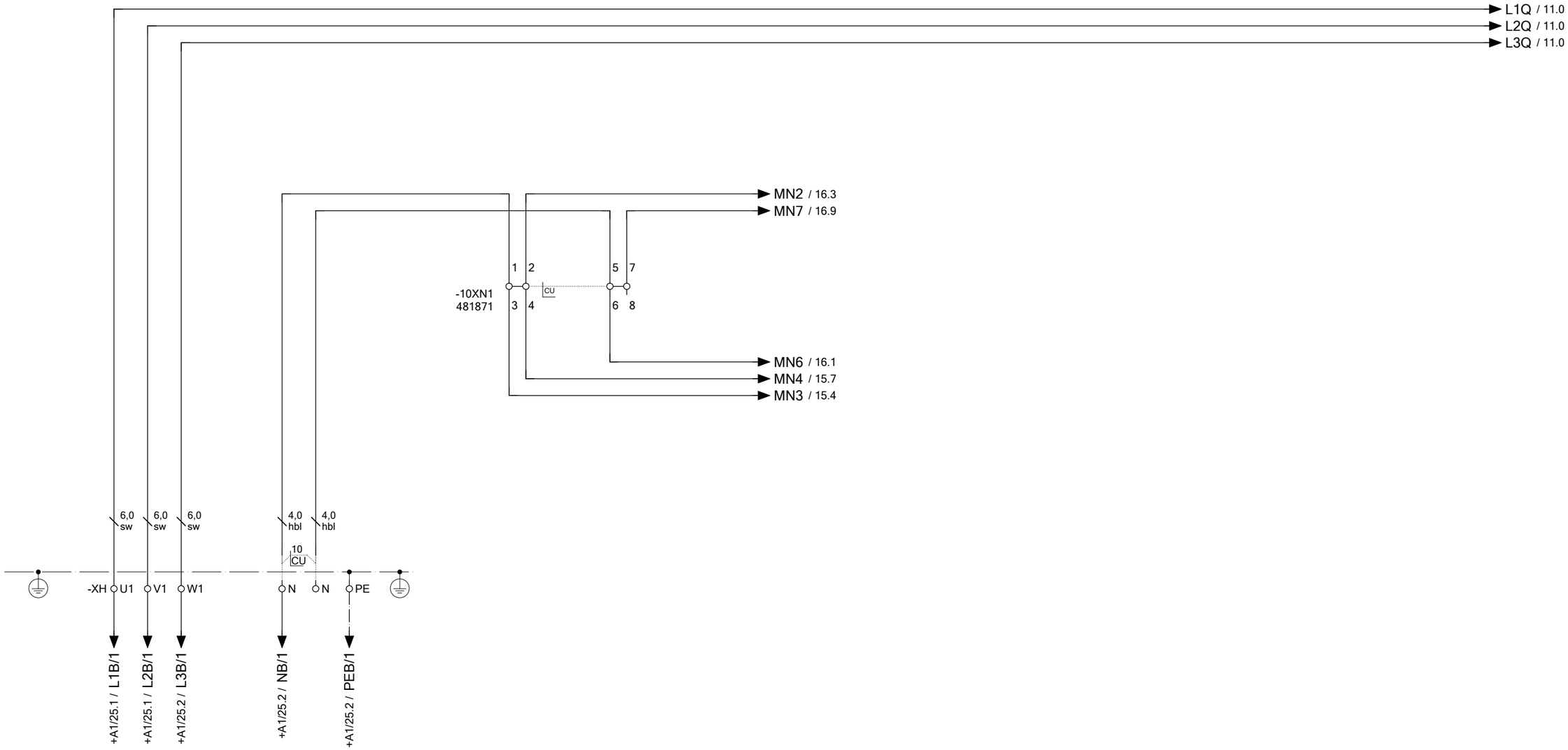
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Distribuzione 24VDC Distribution 24VDC	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 9
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_112_1.emp			



Ausiliari Alimentazione
Auxiliaries supply

vedi Pagina: INFORMAZIONI TECNICHE
see Page: TECHNICAL INFORMATION

Fusibile:
Back-up fuse:

gG 35A / AC 400V / IEC 60269

Alimentazione Ausiliari
supply Auxiliaries

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Alimentazione Ausiliari Supply Auxiliaries	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 10
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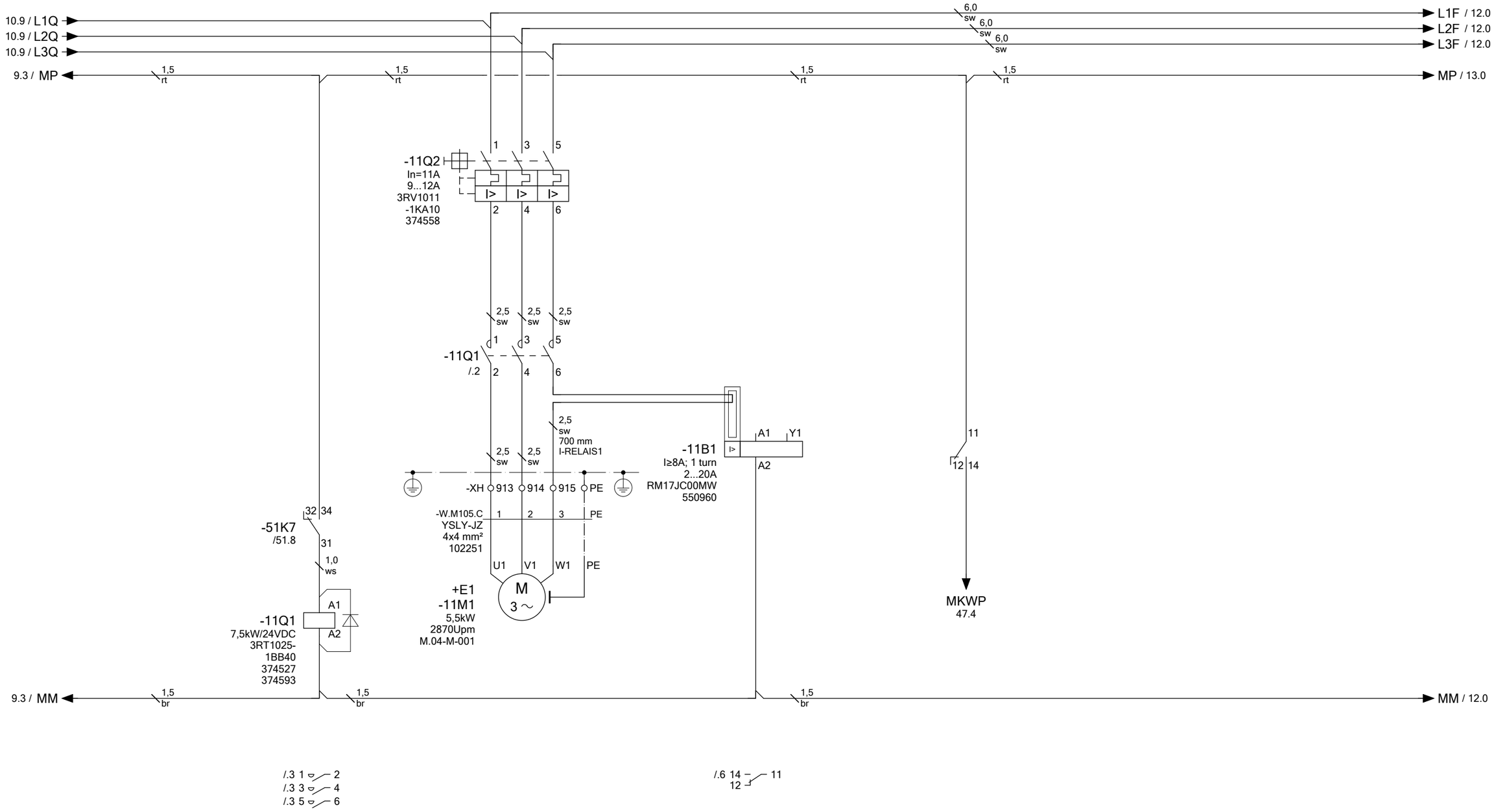

Pompa di Acqua di raffreddamento motore 1
Engine jacket water pump 1

Segnale di ritorno Pompa di Acqua di raffreddamento motore
Feed back Engine jacket water pump

Richiesta Pompa di Acqua di raffreddamento motore 1
Demand Engine jacket water pump 1

Corrente-Sorveglianza: Pompa di Acqua di raffreddamento motore 1
Current-Monitoring: Engine jacket water pump 1

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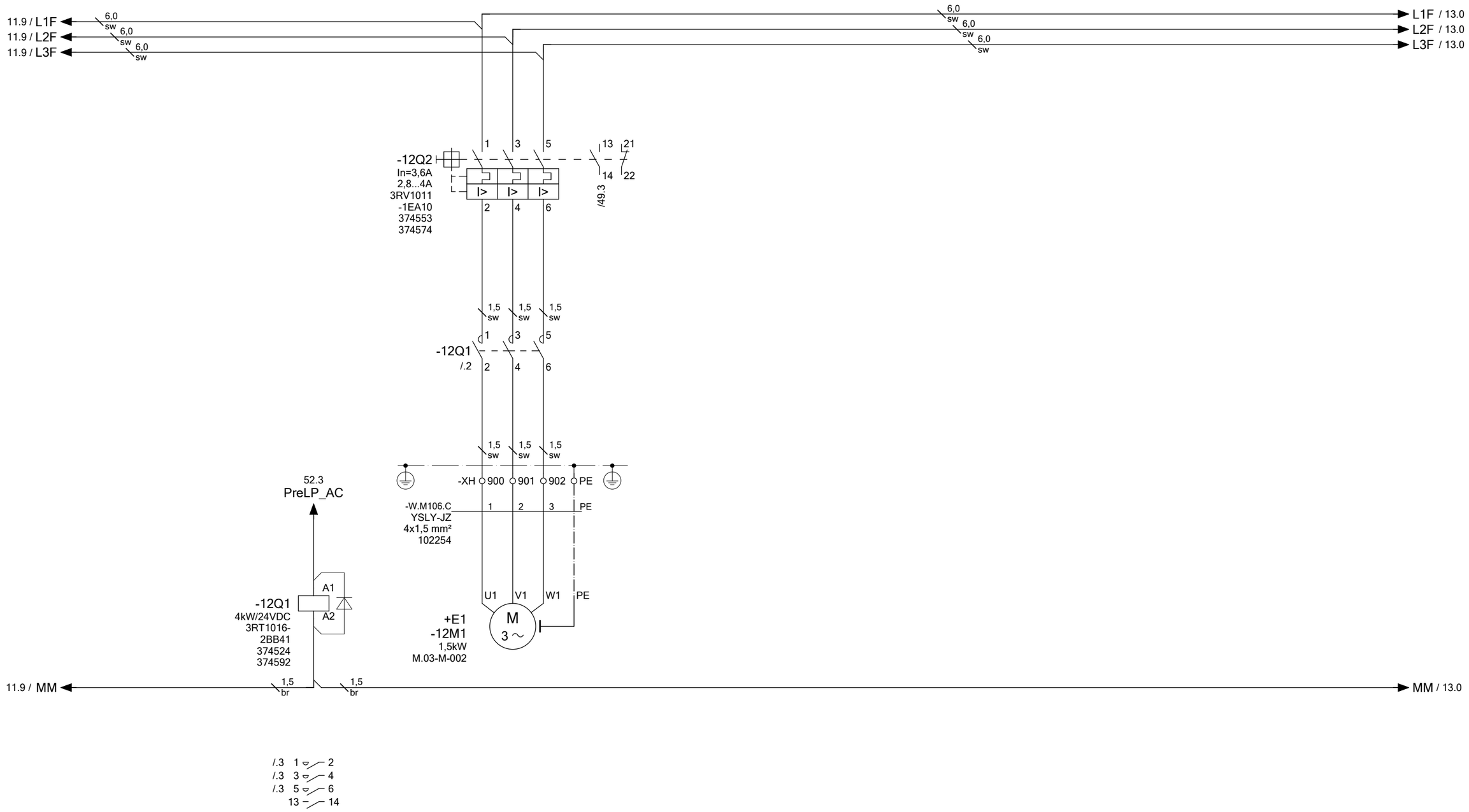
10 12

			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Pompa di Acqua di raffreddamento motore Engine jacket water pump	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 11
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric B SGMACRO\M1_200_3.emp			



Pompa olio AC
Oil pump AC

Comando Pompa olio AC
Command Oil pump AC

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Pompa olio AC Oil pump AC	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 12
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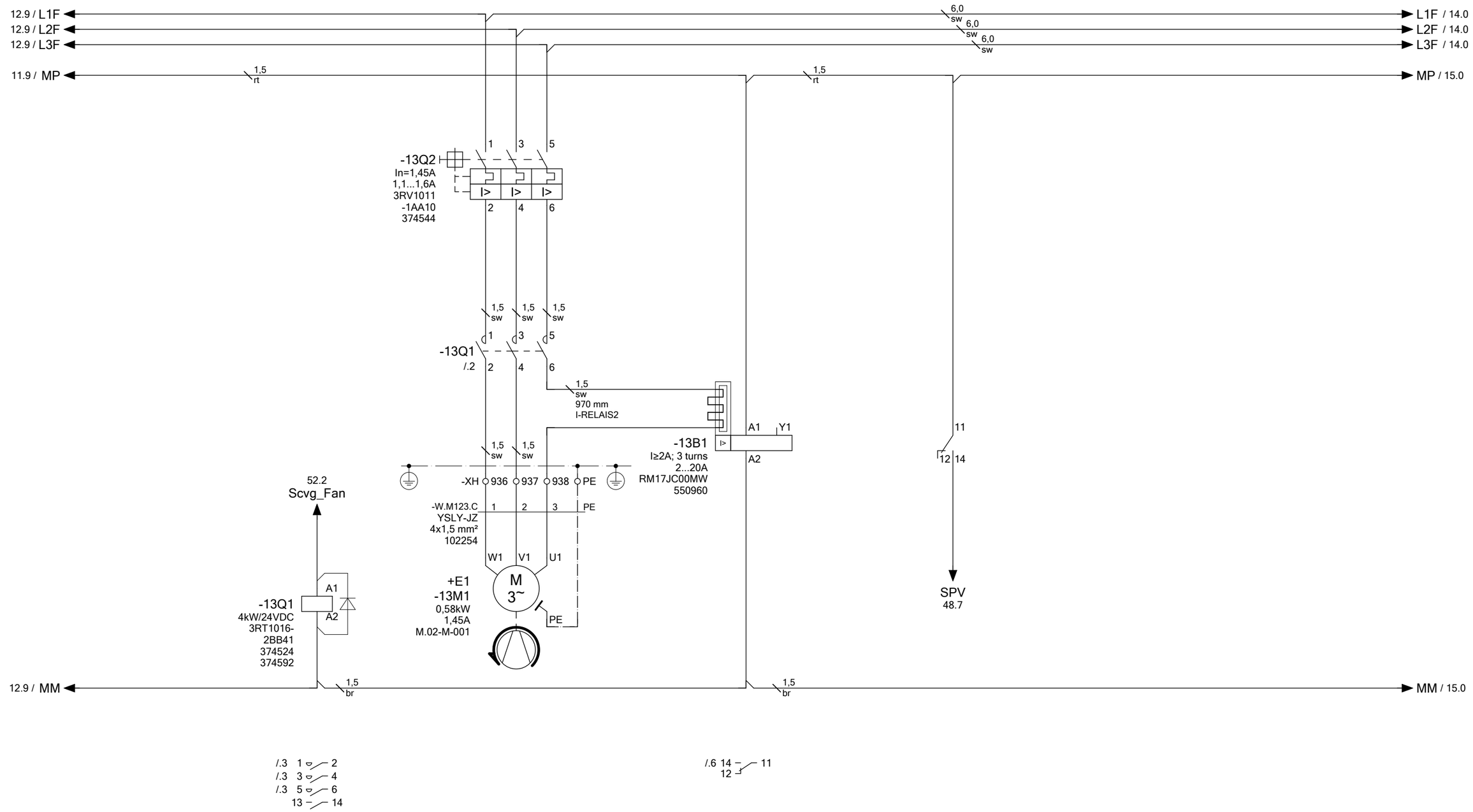

Ventilatore di lavaggio
Scavenging fan

Disturbo: Ventilatore di lavaggio
Failure: Scavenging fan

Comando Ventilatore di lavaggio
Command Scavenging fan

Corrente-Sorveglianza: Ventilatore di lavaggio
Current-Monitoring: Scavenging fan

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14

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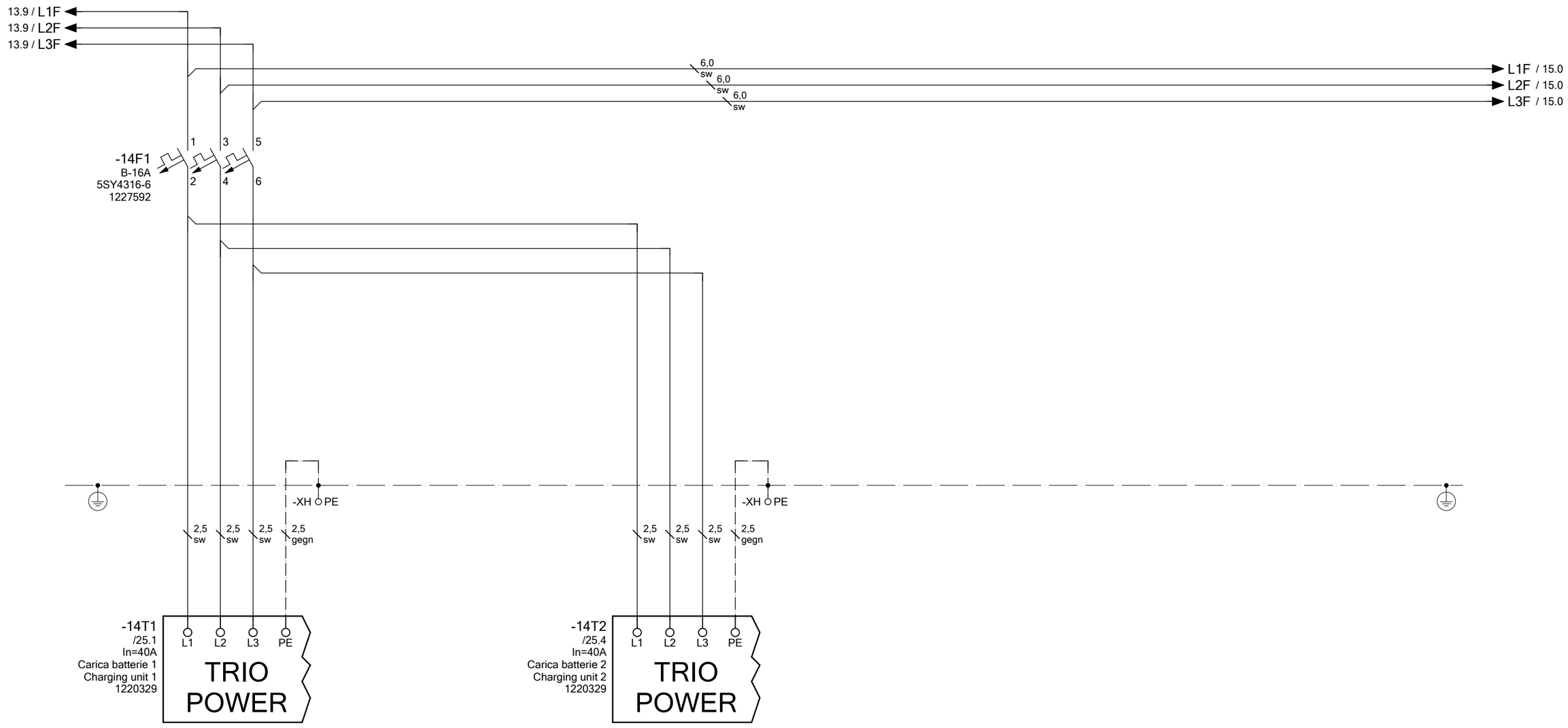
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Ventilatore di lavaggio Scavenging fan	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 13
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_211.emp			



Carica batterie - 400V
Charging unit - 400V

Carica batterie - 400V
Charging unit - 400V

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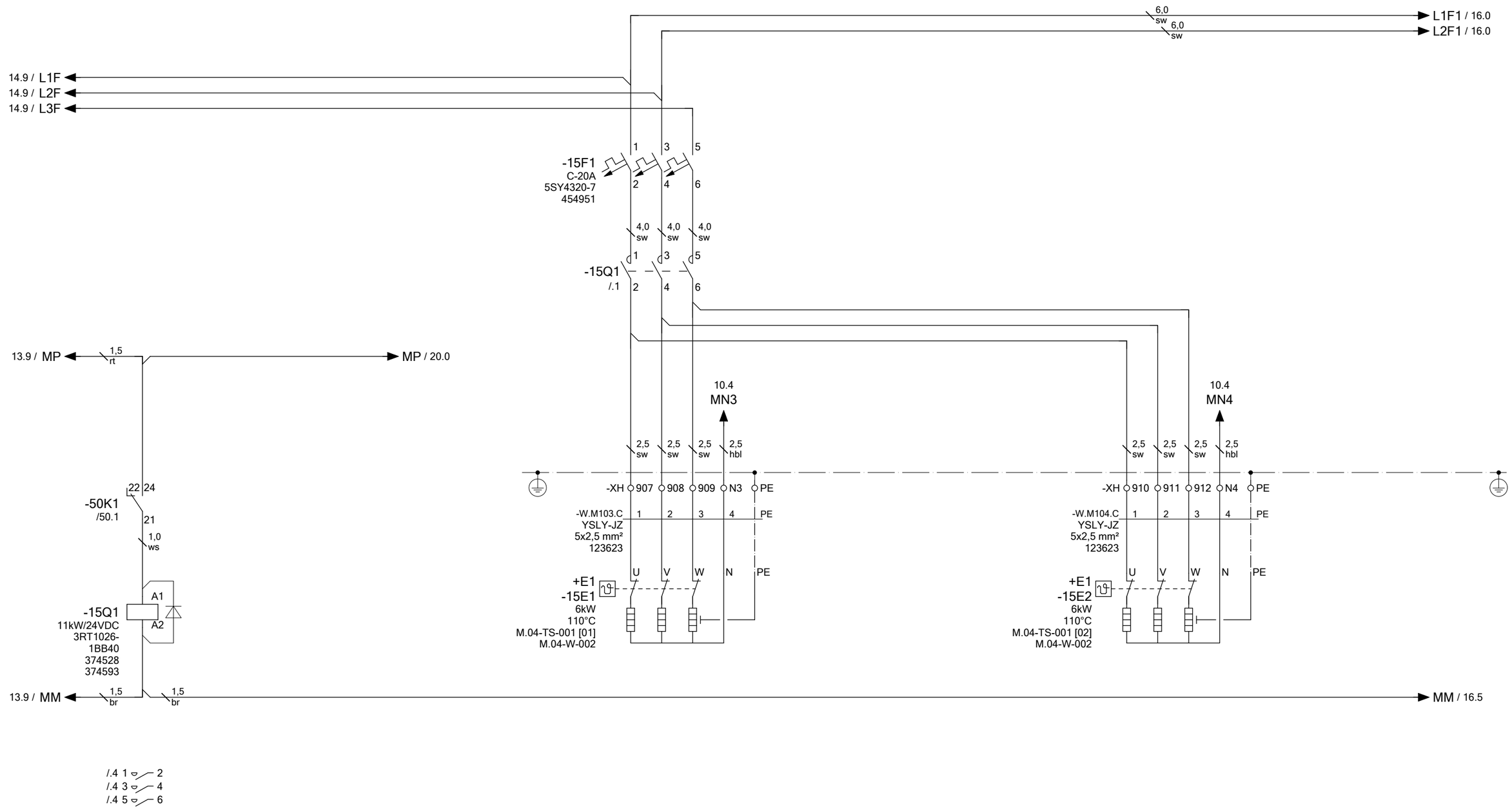
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Carica batterie 1, 2 Charging unit 1, 2	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 14
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_215_3.emp			



Richiesta Resistenza di riscaldamento
Demand Heating elements

Resistenza di riscaldamento
Heating elements

Resistenza di riscaldamento
Heating elements

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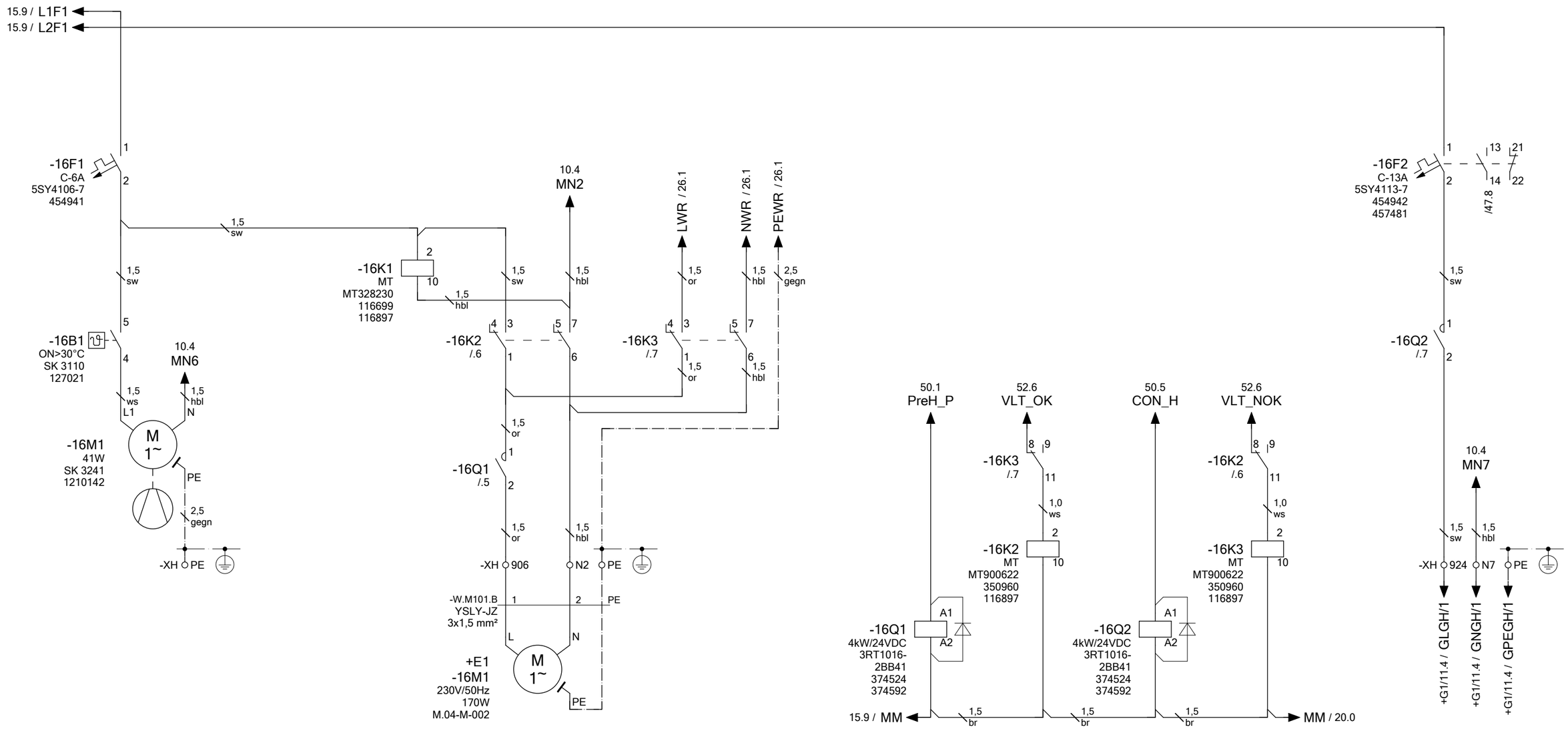
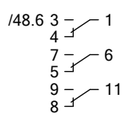
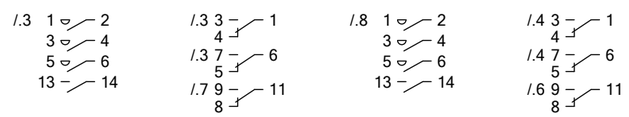
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Resistenza di riscaldamento Heating elements	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 15
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_225_5.emp			





Sorveglianza Ausiliari Tensione
Monitoring Auxiliaries Voltage



Tensione Ausiliari OK
Voltage Auxiliaries OK

Tensione Ausiliari: disturbo
Voltage Auxiliaries: failure

Ventilatore del quadro
Panel fan

Pompa preriscaldamento
Preheating pump

###########
DC-AC Converter

Richiesta Pompa preriscaldamento
Demand Preheating pump

Richiesta Scaldiglie anticondensa
Demand Anti condensation heater

Alimentazione Scaldiglie anticondensa
Supply Anti condensation heater

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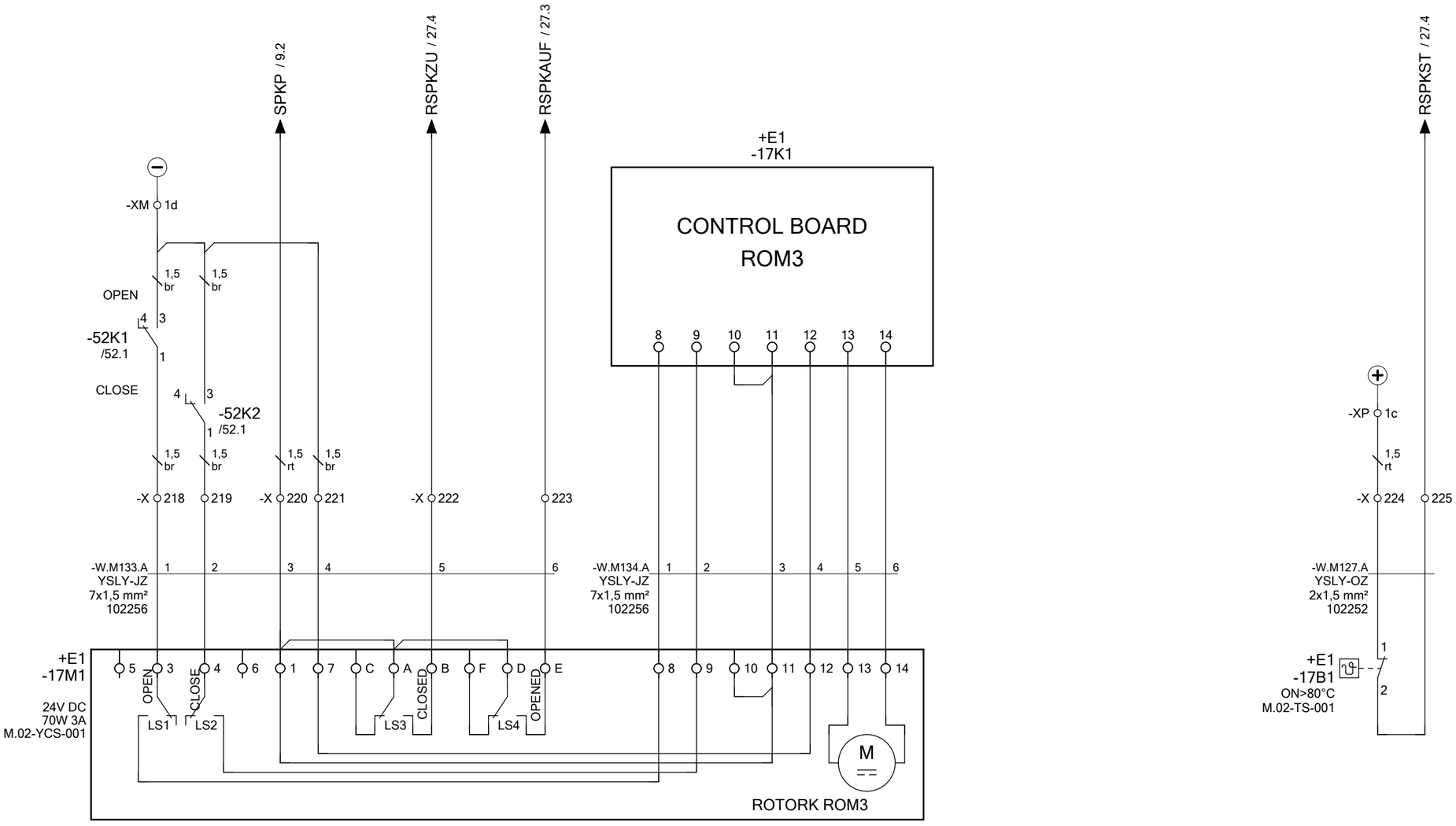
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Pompa preriscaldamento / Raffreddamento (Quadro) / Scaldiglie anticondensa Preheating pump / Cooling (Panel) / Anti condensation heater	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 16
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_230_7.emp			



Serranda di lavaggio
Scavenging flap

16

Temperatura Serranda di lavaggio
Temperature Scavenging flap

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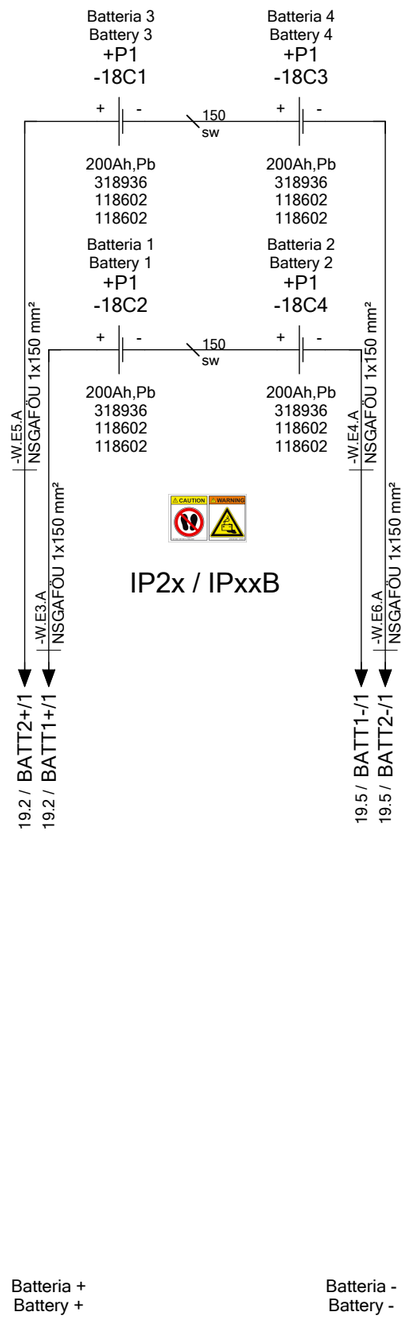
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Serranda di lavaggio Scavenging flap	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 17
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_243.emp			



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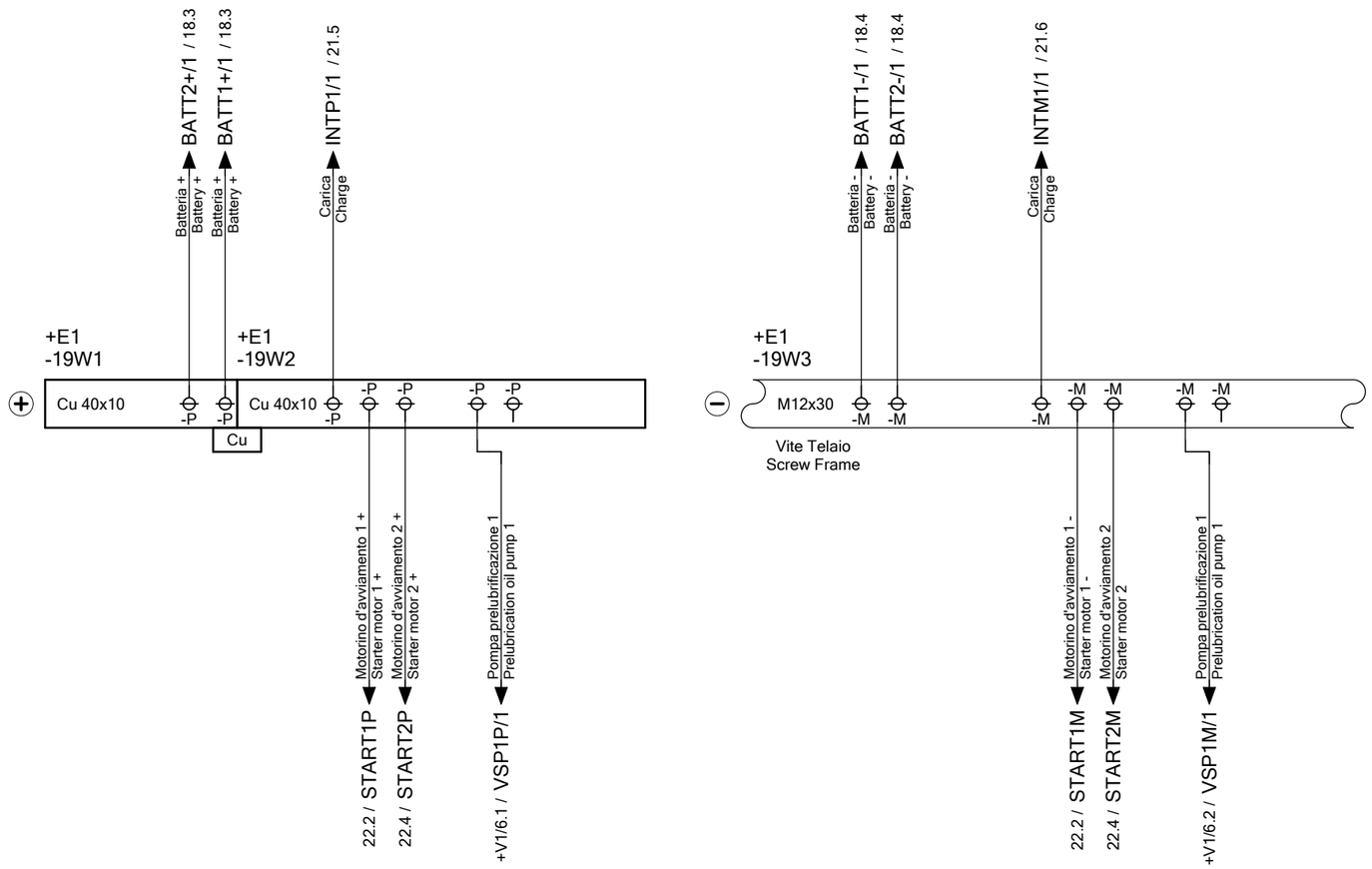
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	24VDC-Batterie 24VDC-Batteries	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 18
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_253.emp			



24VDC-Alimentazione
24VDC-supply

24VDC-Alimentazione
24VDC-supply

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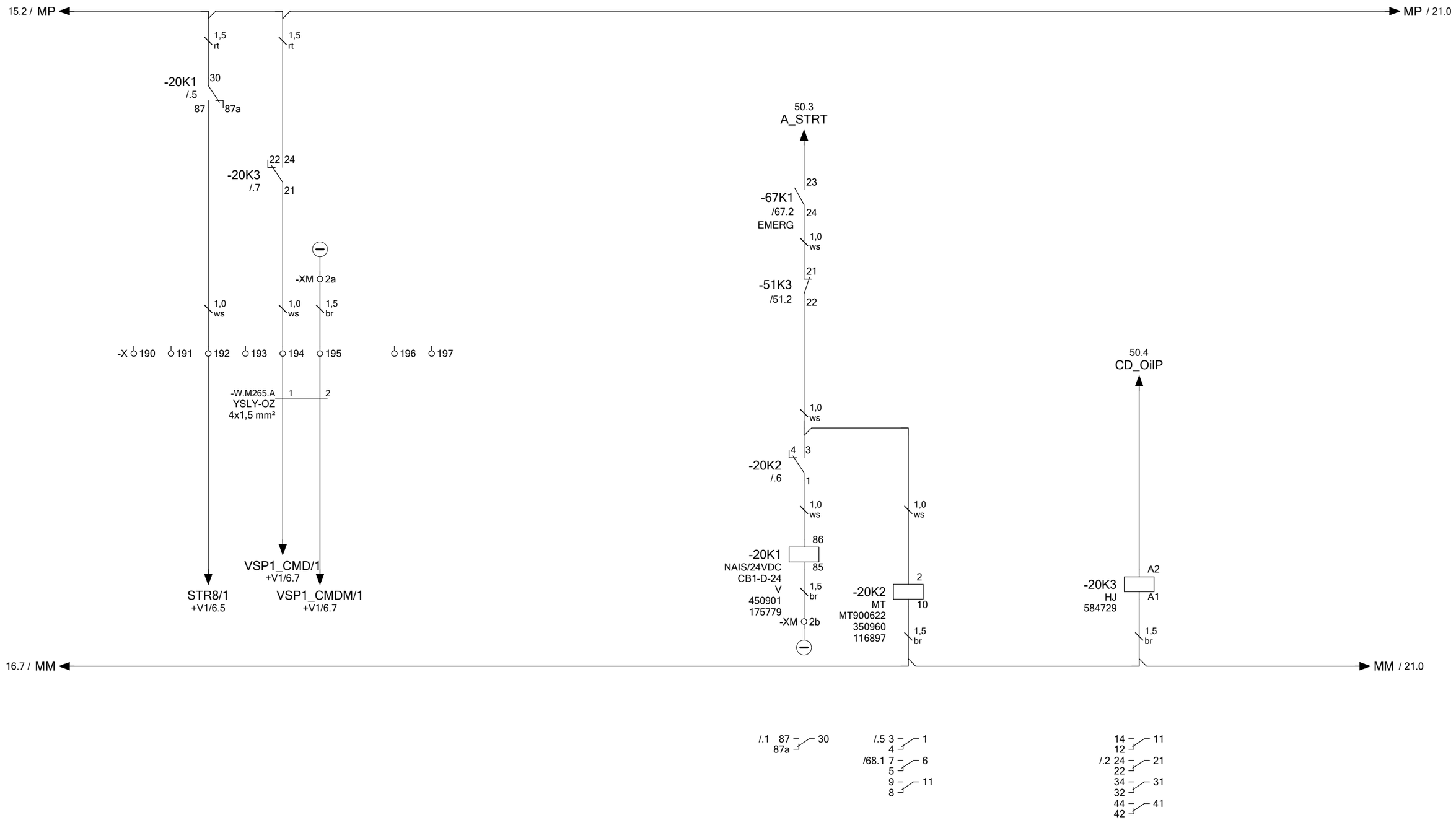
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	24VDC Punto distribuzione 24VDC Base	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 19
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric 8 SGMACRO\M1_257_2.emp			



Comando: Motorino d'avviamento
Command: Starter motor

Comando: Pompa olio DC
Command: Oil pump DC

Rele d'avviamento
Start relay

Rele d'avviamento
Start relay

Richiesta Pompa olio DC 1
Demand Oil pump DC 1

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Comando Motorino d'avviamento + Pompa olio Control Starter motor + Oil pump	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 20
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric 8 SGMACRO\M1_265.emp			

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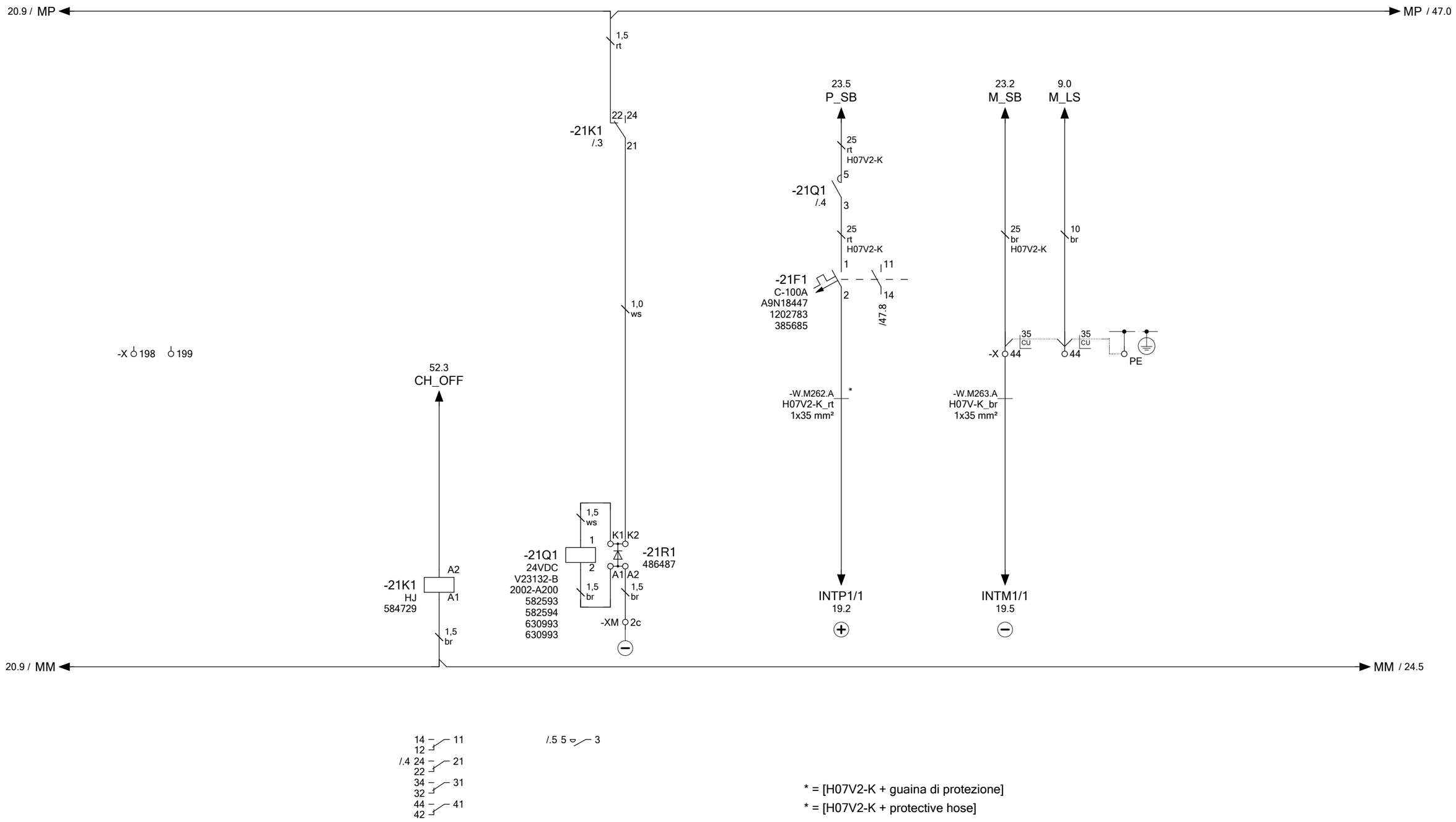

* = [H07V2-K + guaina di protezione]

* = [H07V2-K + protective hose]

Riserva
Spare

Disinserimento: Carica
Switch off: Charge

Disinserimento: Carica
Switch off: Charge

Carica
Charge

Punto distribuzione
Base

Collegamento a terra 24VDC
Grounding 24VDC

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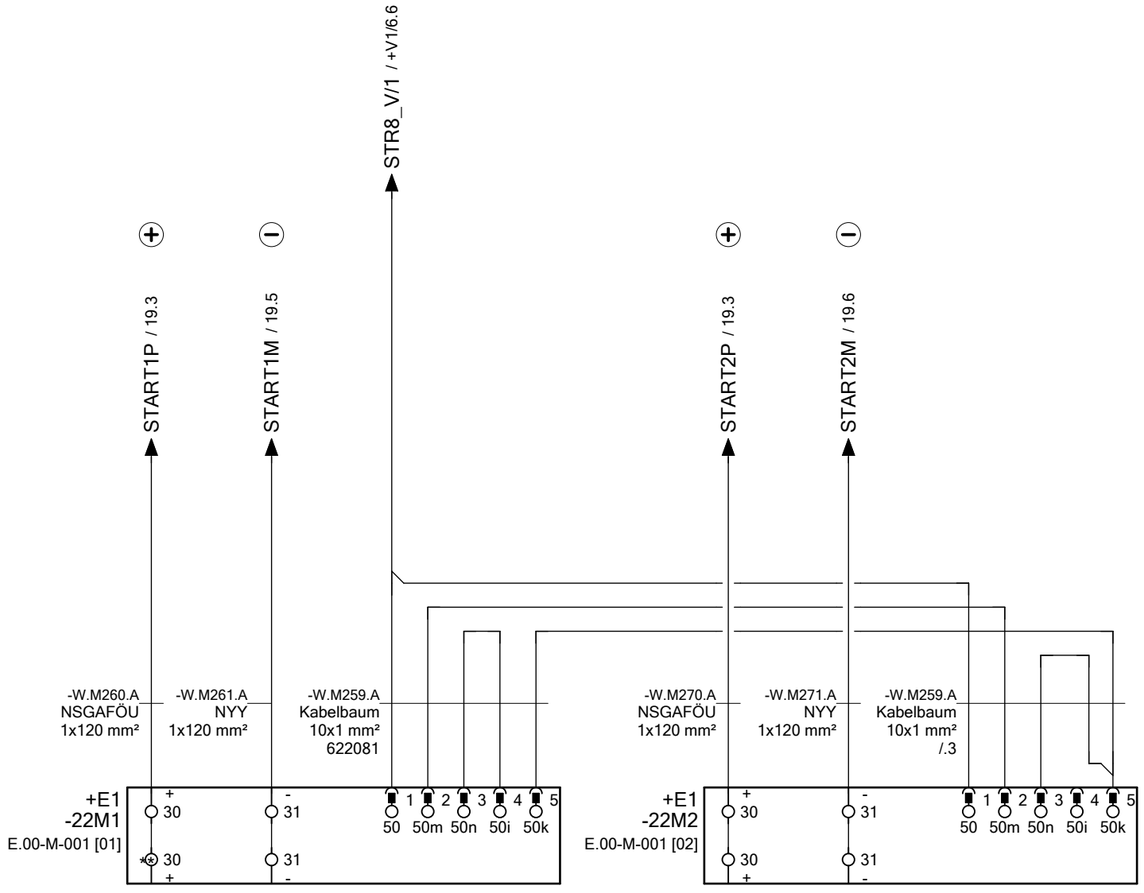
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 21
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_269.emp			

IP2x / IPxxB

24VDC Anschlüsse mit TL: 118602

**: 30/31 Protezione Morsetto Parte 123738
**: 30/31 Protection Terminal Part 123738



Motorino d'avviamento 1
Starter motor 1

Motorino d'avviamento 2
Starter motor 2

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 22
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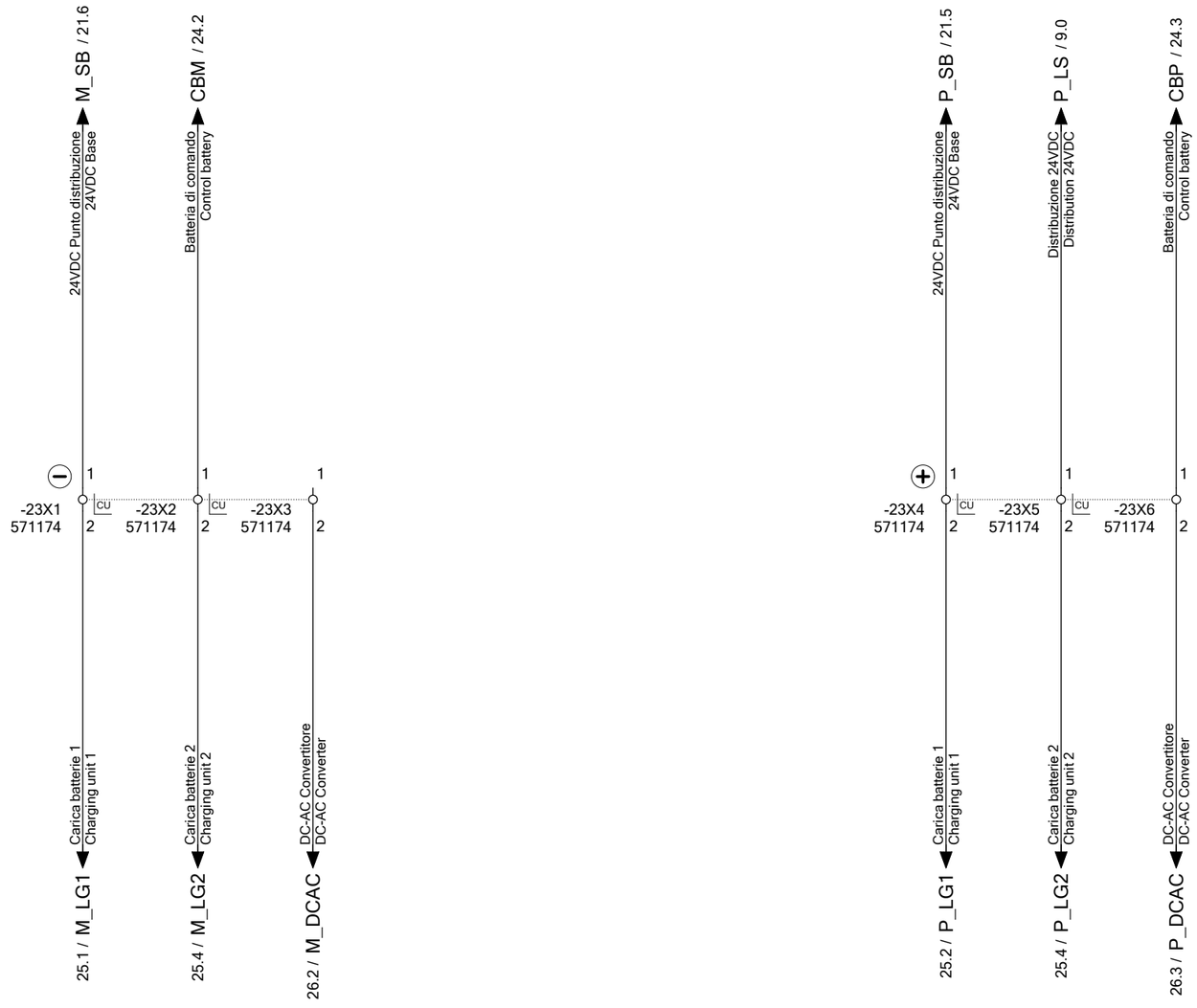

Morsetti Punto distribuzione - 24VDC
Terminals Base - 24VDC

Morsetti Punto distribuzione +24VDC
Terminals Base +24VDC

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Morsetti Carica batterie Terminals Charging unit	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 23
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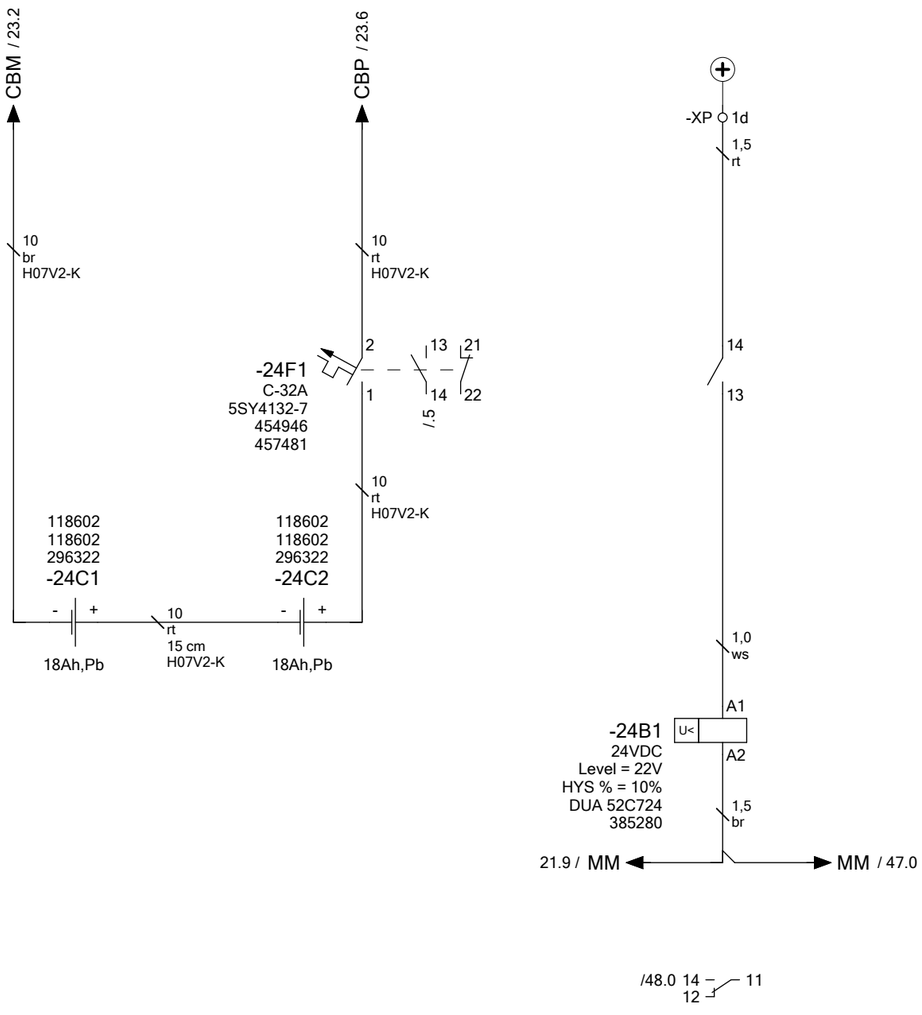

Batteria di comando 2
Control battery 2

Batteria di comando 1
Control battery 1

Batteria: Tensione min
Battery: Voltage min

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Batteria di comando Control battery	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 24
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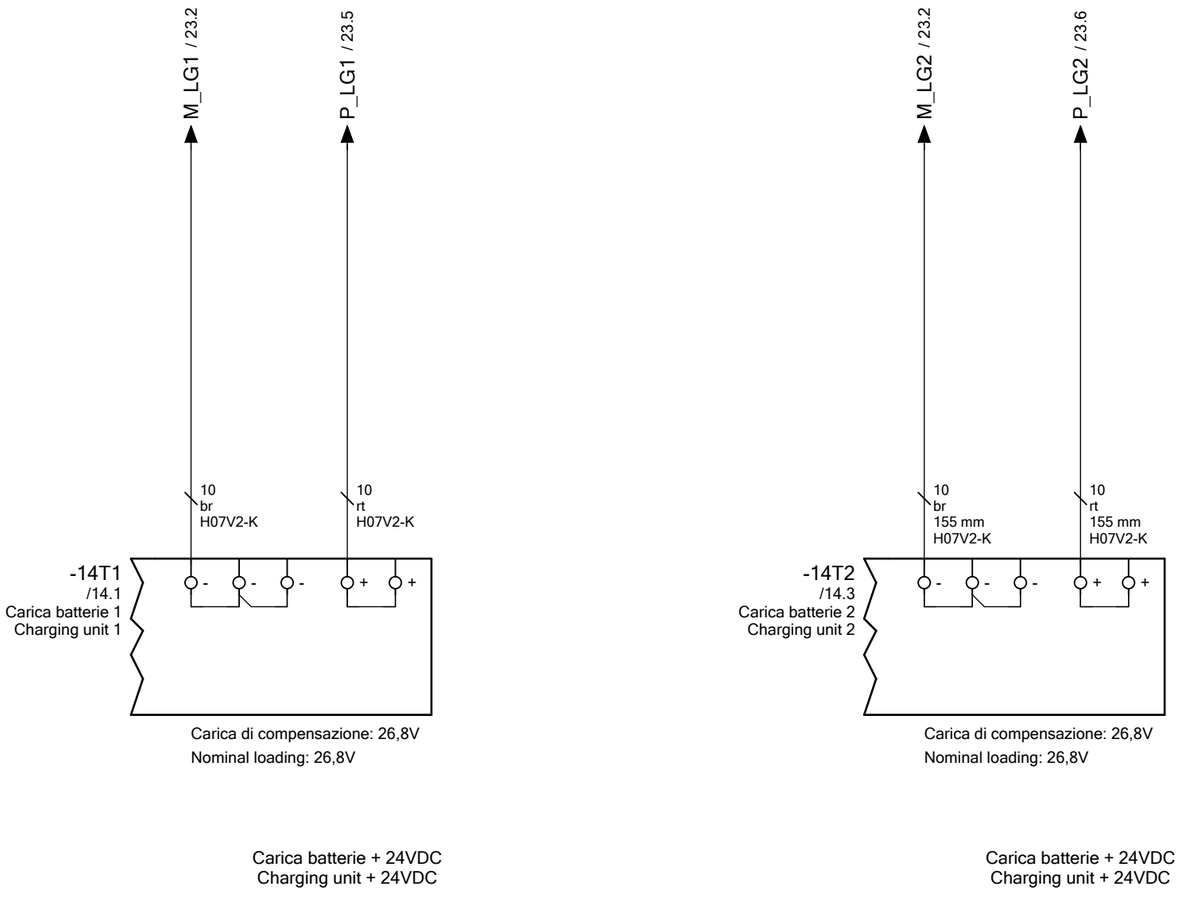

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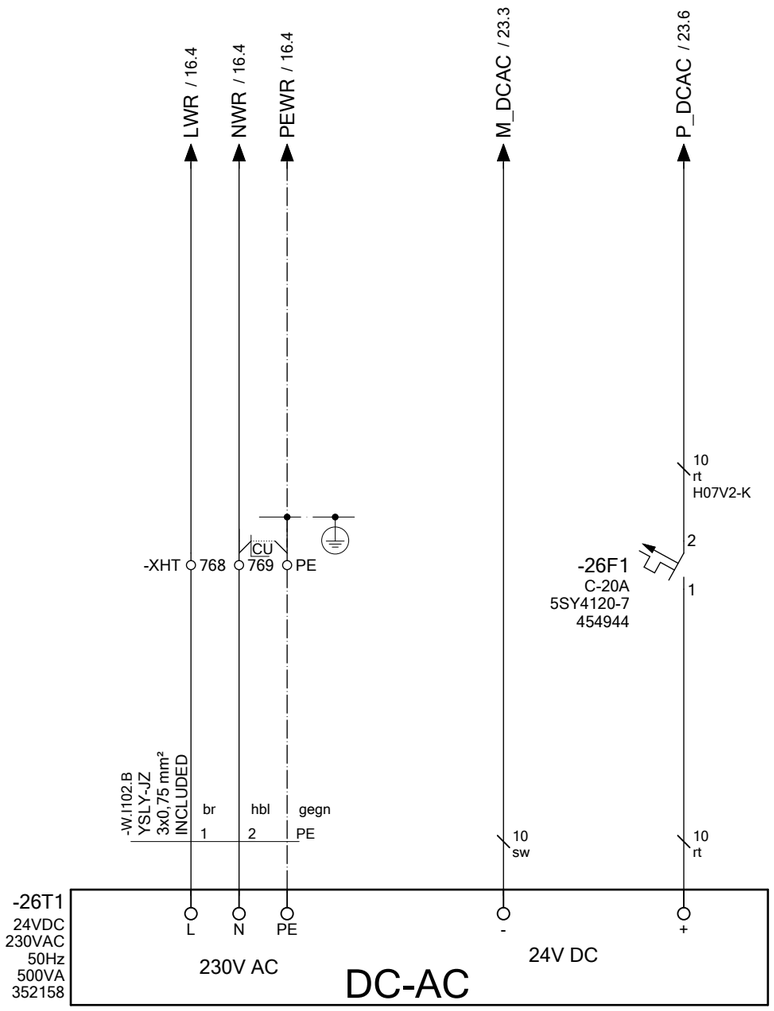
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Carica batterie 2x Charging unit 2x	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 25
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_408.emp			

-XHT = Morsetti Porta
Terminals Door



DC-AC Convertitore
DC-AC Converter

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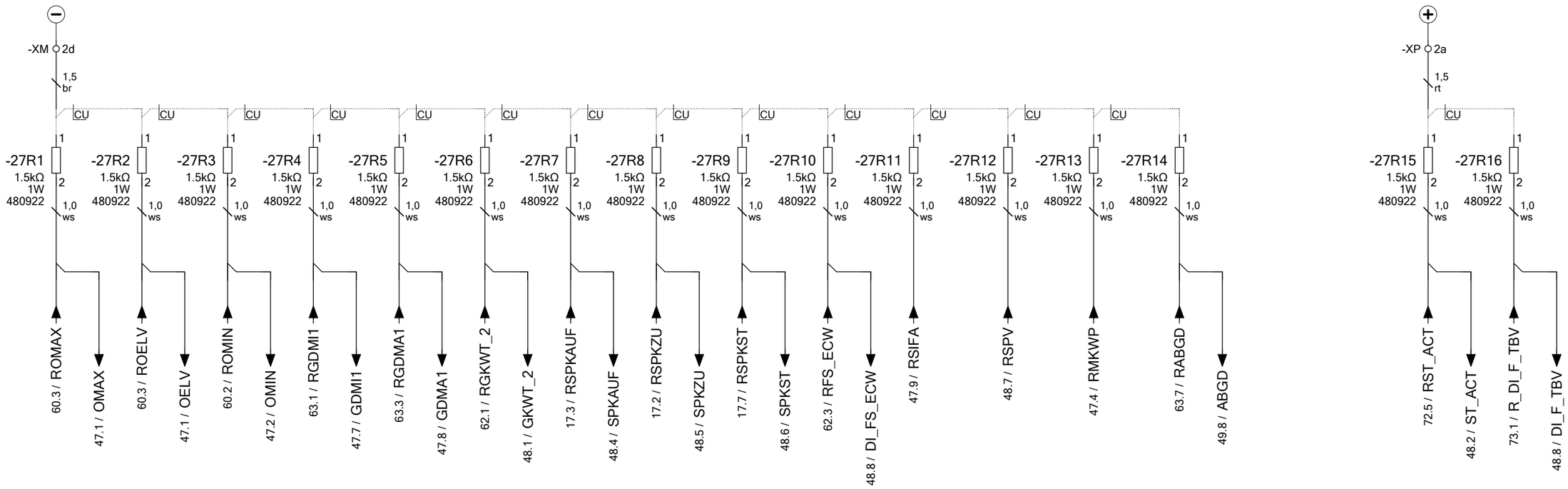
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	DC-AC Convertitore DC-AC Converter	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 26
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_415.emp			



Resistenza - Digital Ingresso
Resistor - Digital Input

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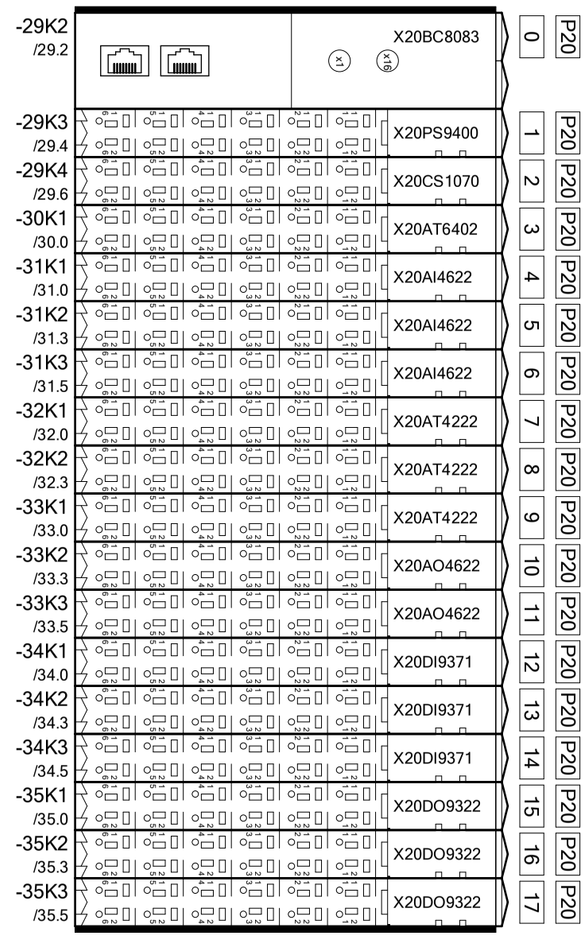
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Resistenzi Resistors	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 27
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_441.emp			

BUS-CONTROLLER



Modulo di alimentazione
Supply module
CAN-BUS Modulo
CAN-BUS Module
Analog Ingresso
Analog Input
Analog Ingresso
Analog Input
Analog Ingresso
Analog Input
Analog Ingresso
Analog Input
Analog Ingresso
Analog Input
Analog Ingresso
Analog Input
Analog Ingresso
Analog Input
Analog Uscita
Analog Output
Analog Uscita
Analog Output
Digital Ingresso
Digital Input
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Digital Ingresso
Digital Input
Digital Uscita
Digital Output
Digital Uscita
Digital Output
Digital Uscita
Digital Output

	Date	13.02.2015
	Desig.	Streiter Daniela
	Print	11.03.2015
	Check	Name

1 x JMS 612 GS-N.L

CPL JMS 612 F02 Politecnico

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2014KW39

Jenbacher gas engines

Vista del gruppo
Over view modules

SO-Nr.
Project: 22553

Suffix

Wiring Diagram J T132

=

+ M1

Modification | Date | Name | Page 28

SGMACRO\M1_451.emp

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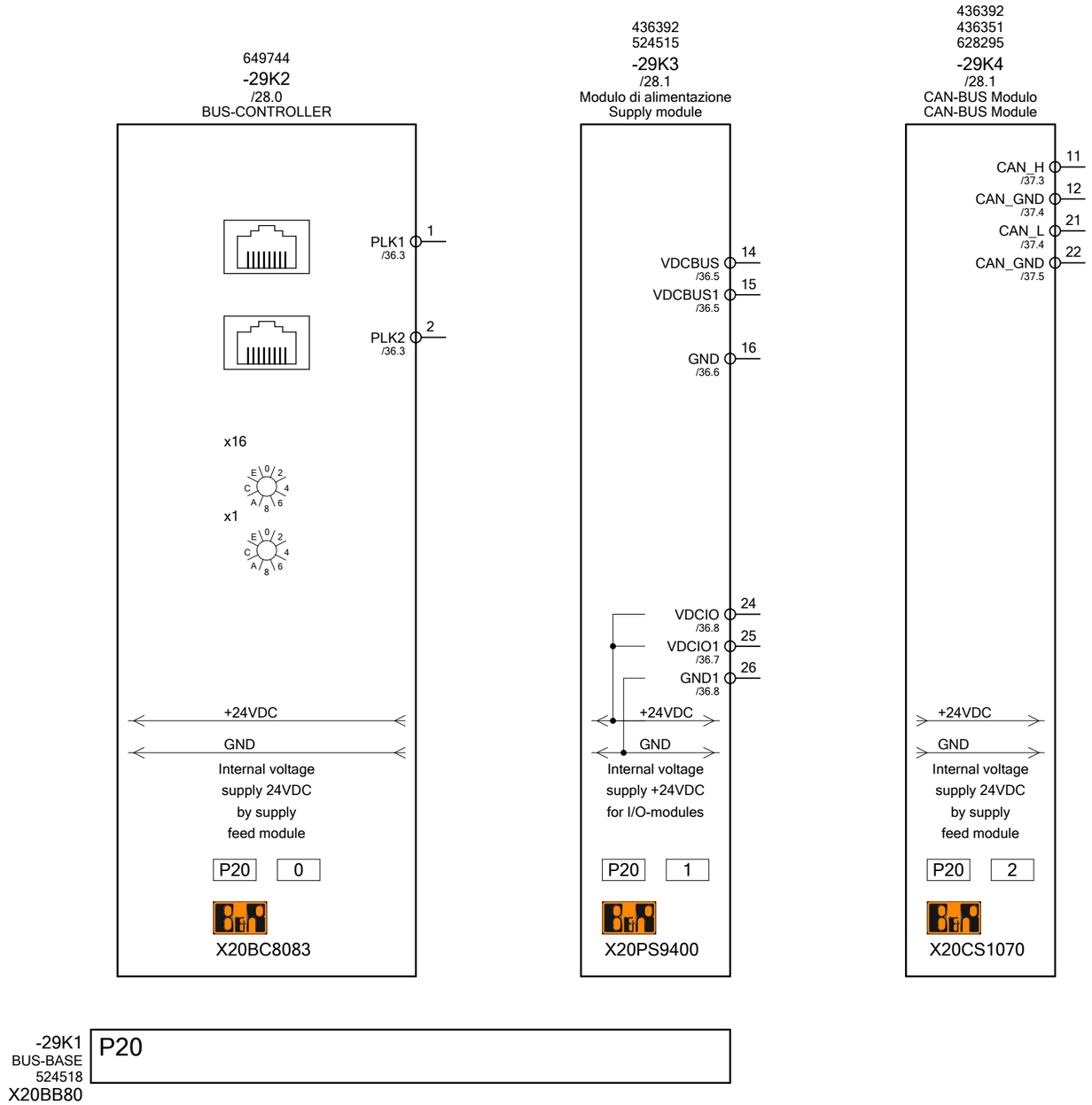

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 29
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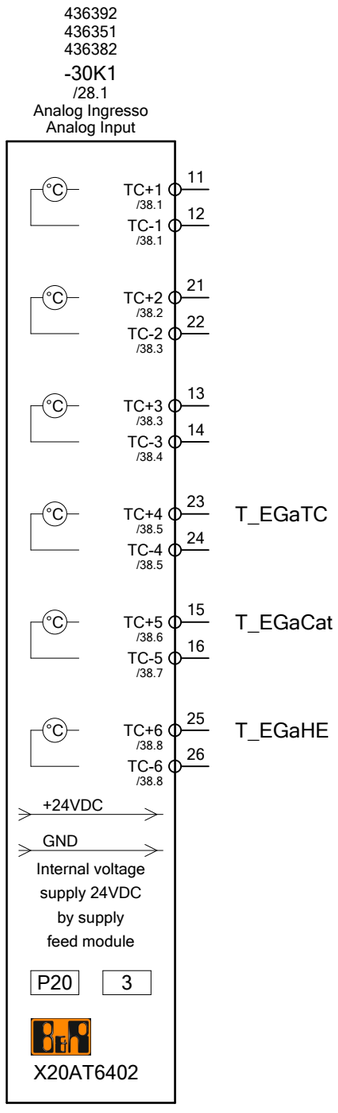

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 30
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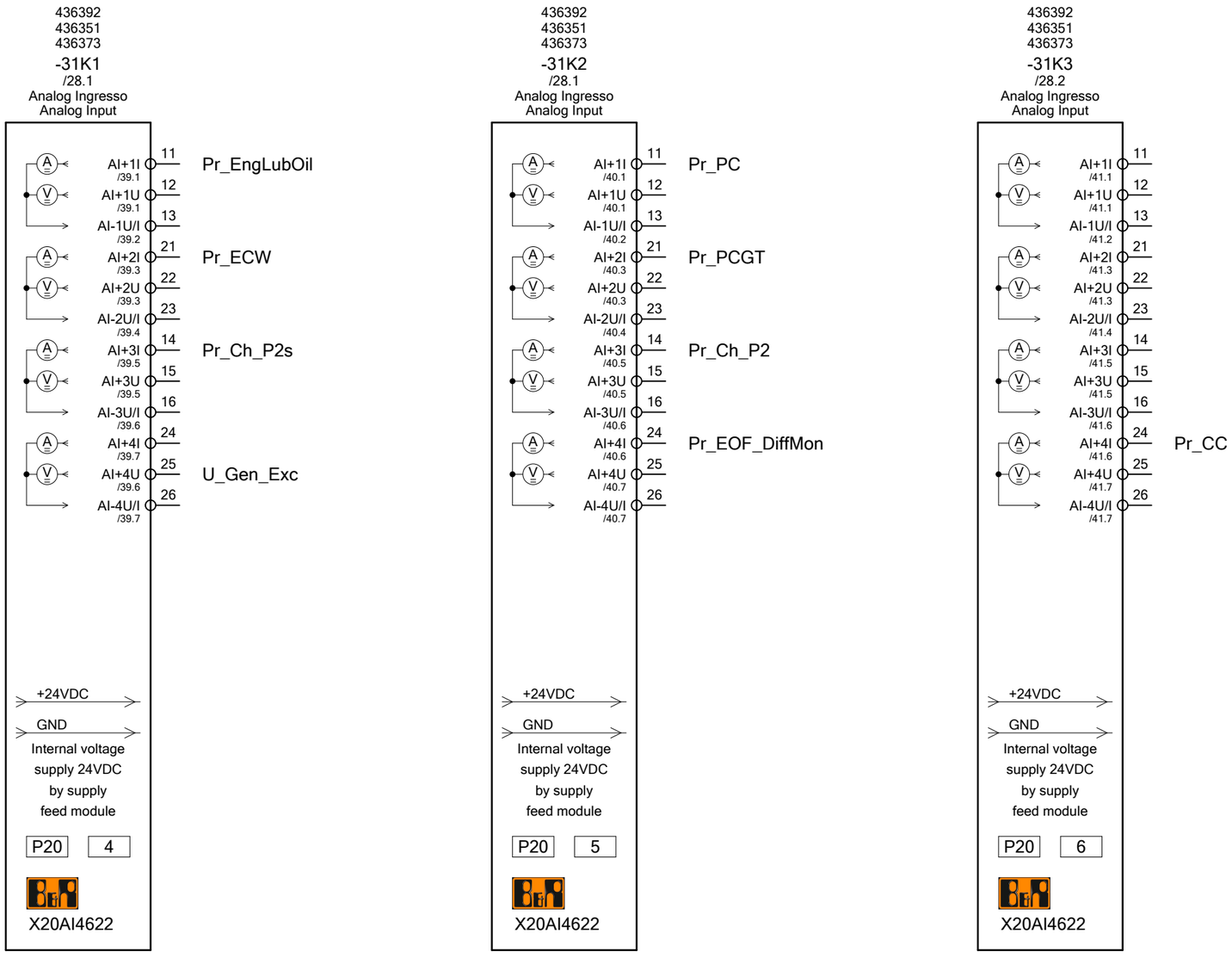

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 31
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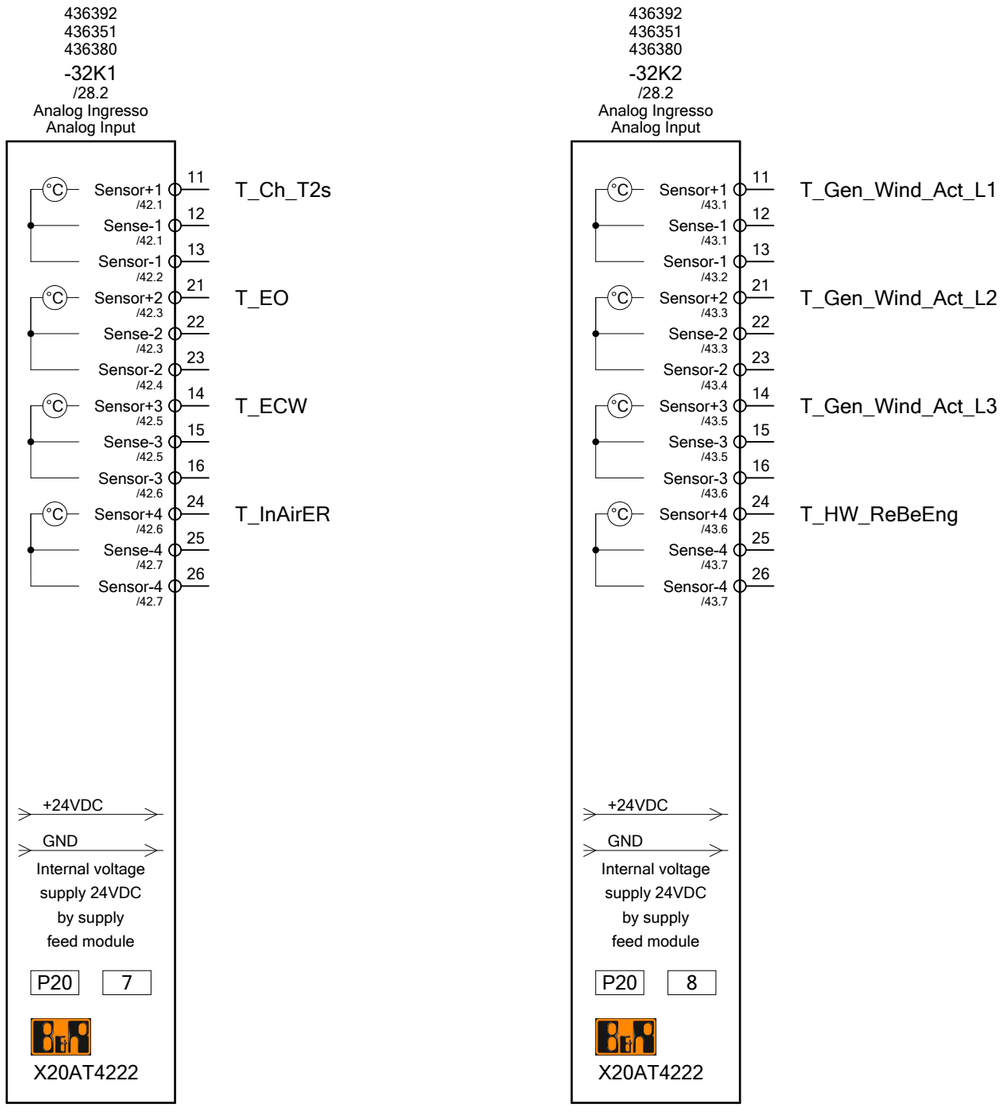

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Placca di collegamento Foglio di coperta Slot address Overview	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
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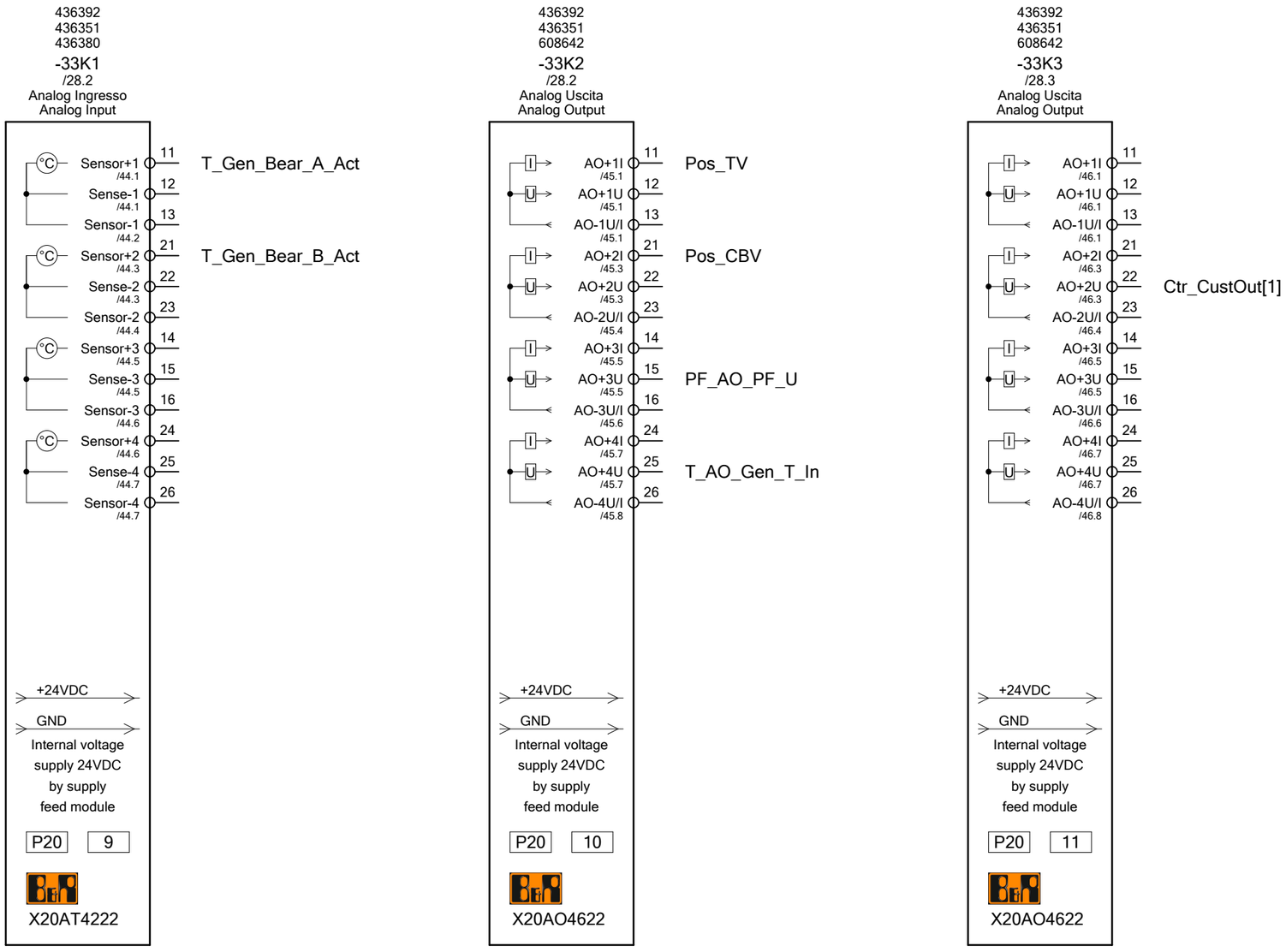

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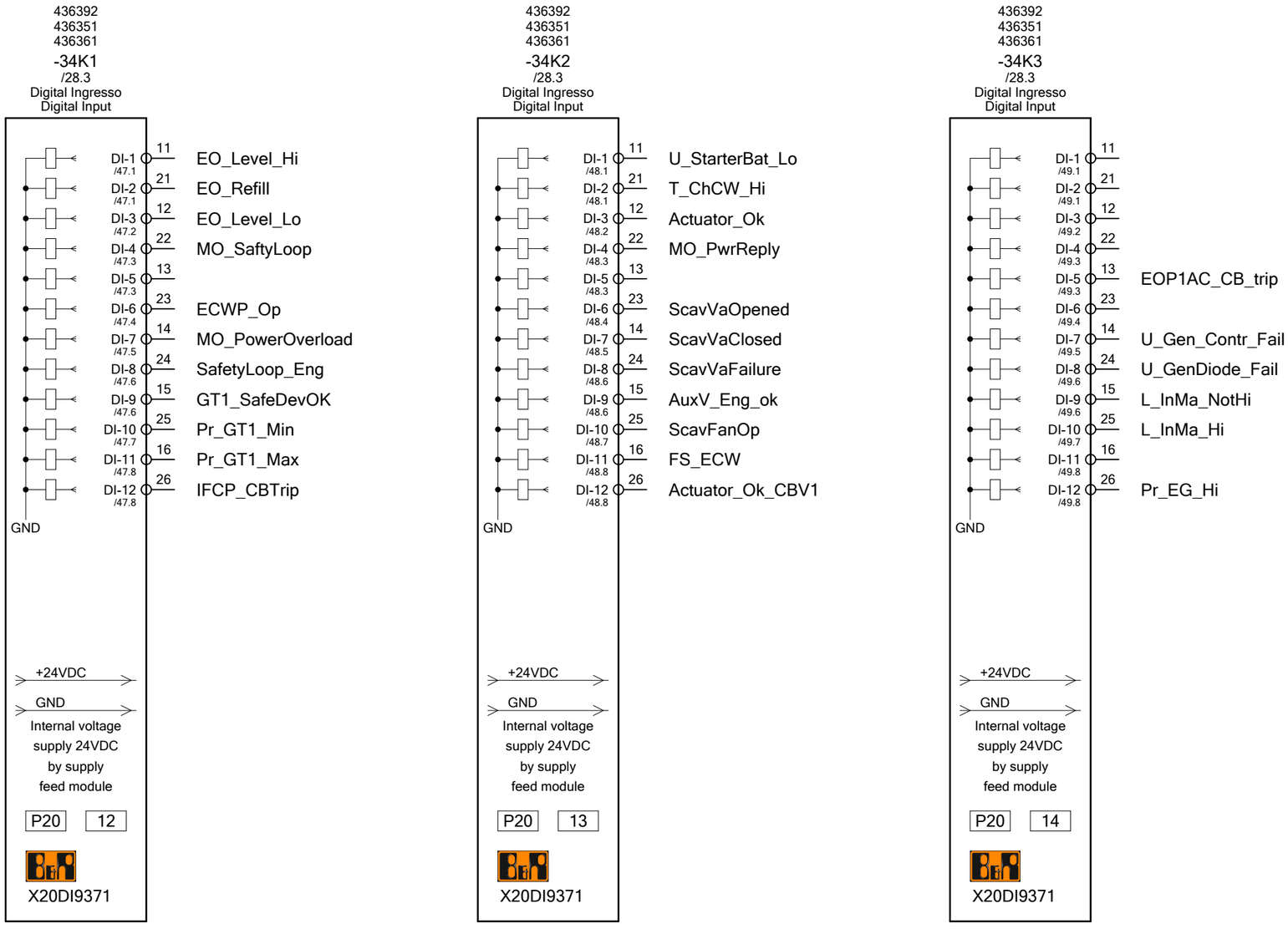
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Placca di collegamento Foglio di coperta Slot address Overview	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 33
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_464.emp			



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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Placca di collegamento Foglio di coperta Slot address Overview	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 34
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_466.emp			

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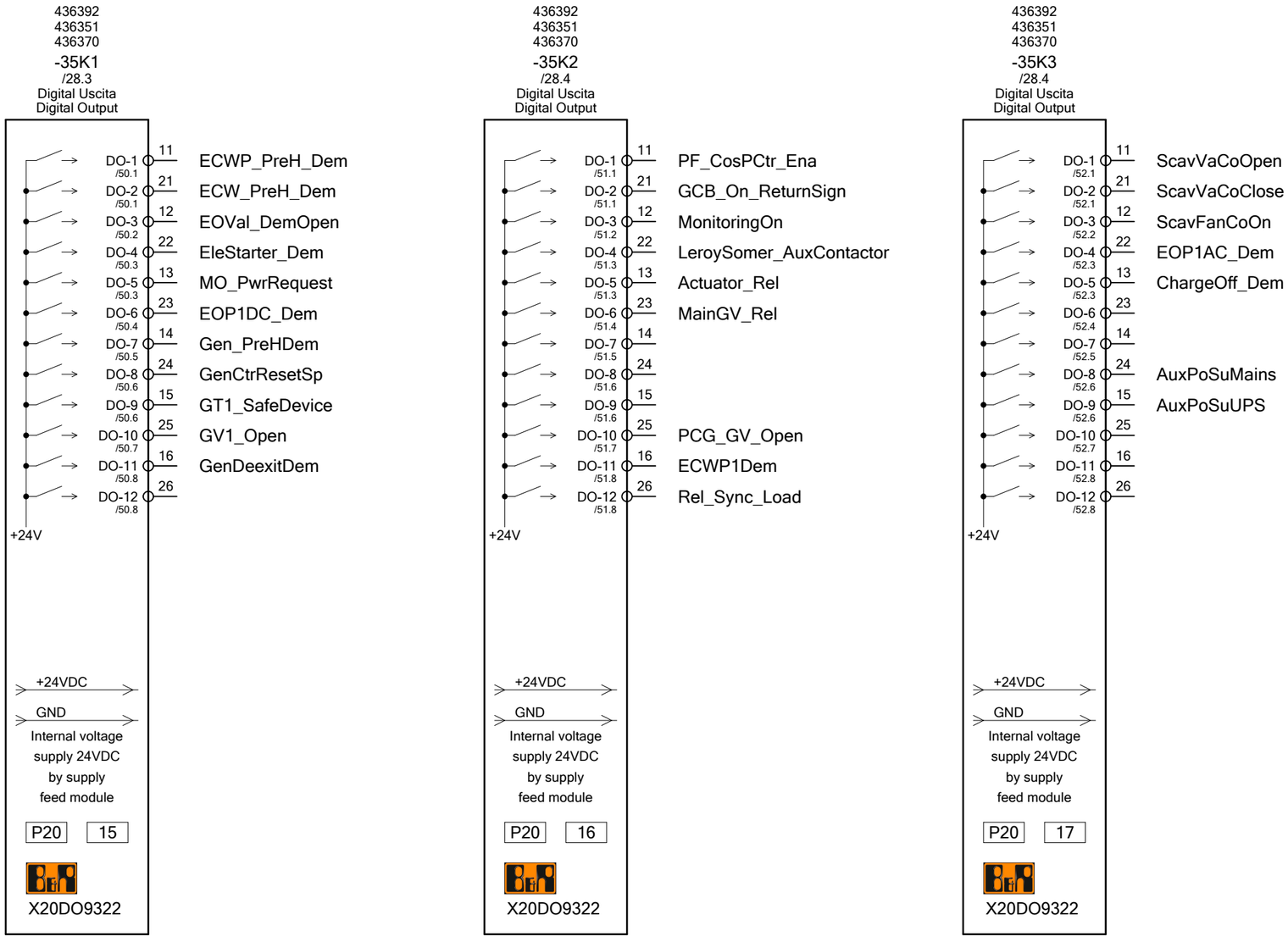

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 35
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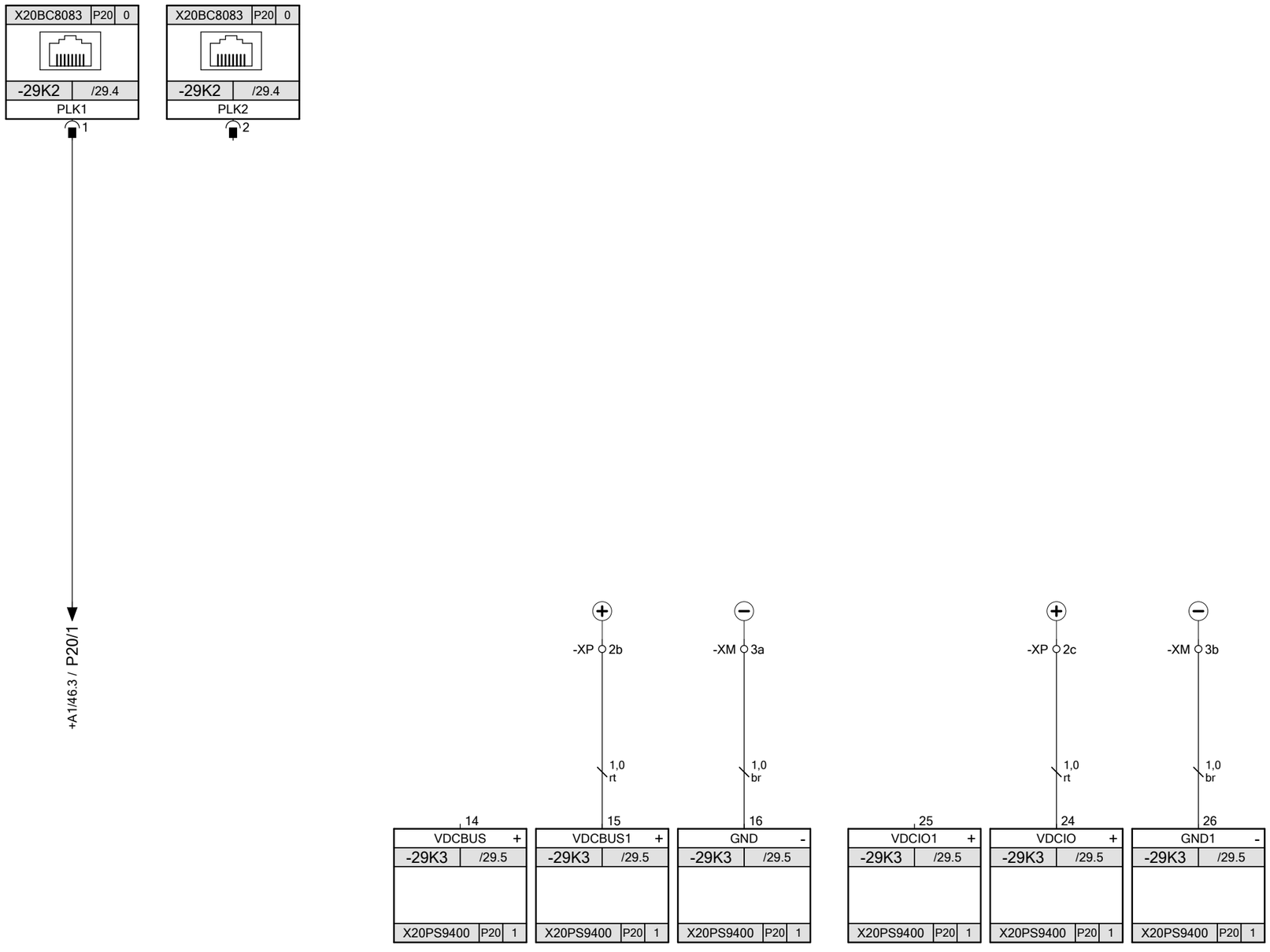

P10 (Quadro comando gruppo)
P10 (Module control panel)

Alimentazione PLC
Supply PLC

Alimentazione PLC
Supply PLC

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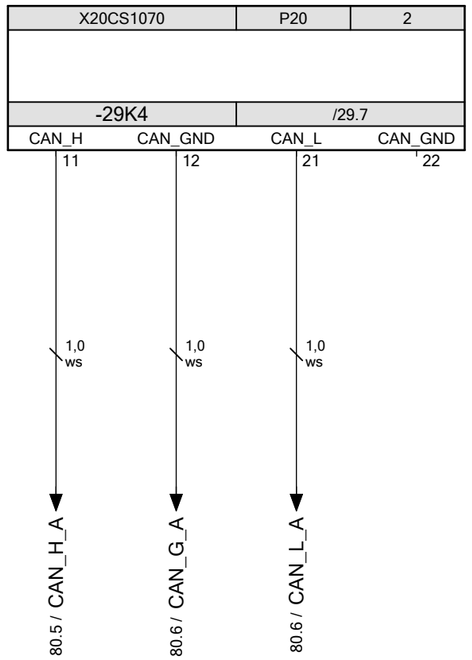

CAN-BUS Accesione / TECJET
CAN-BUS Ignition / TECJET

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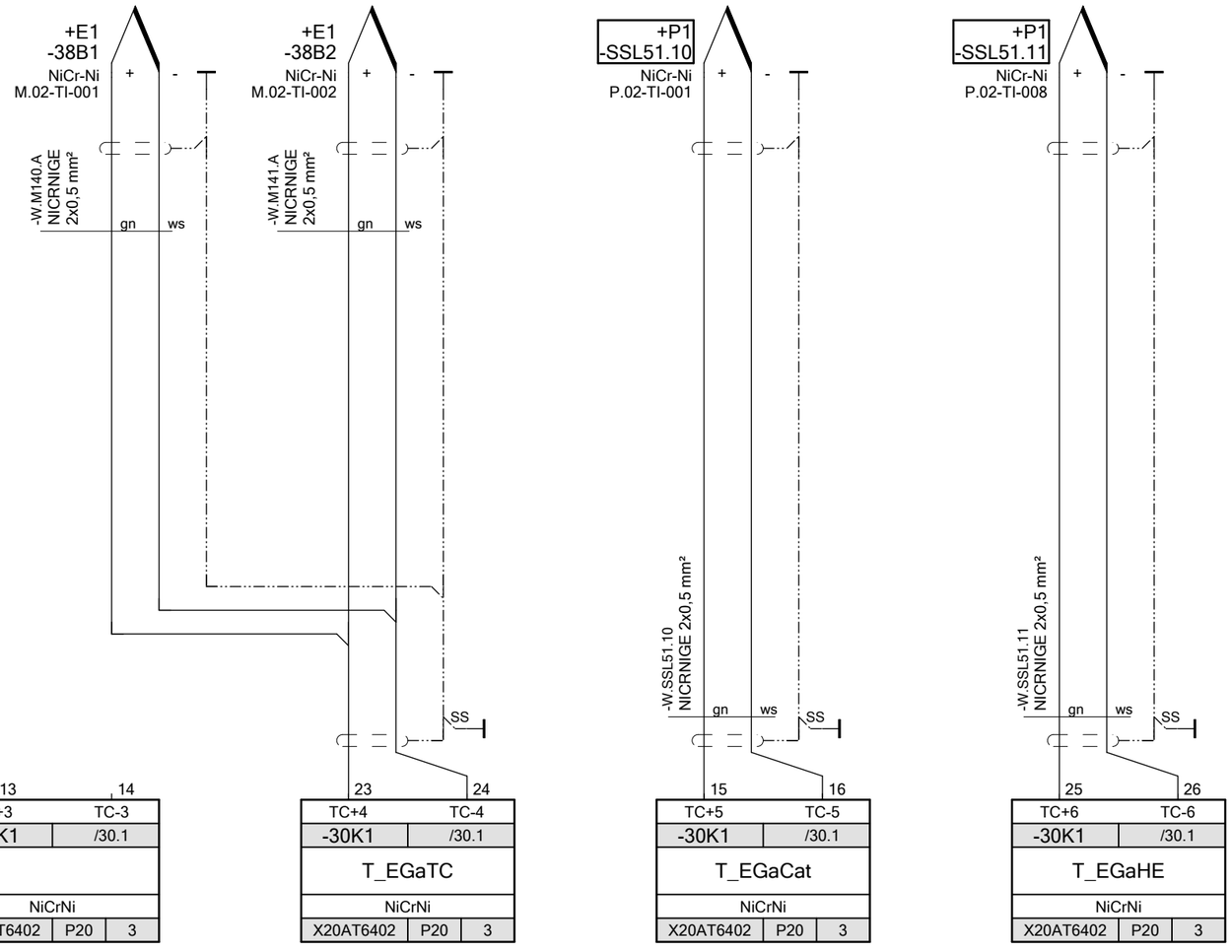

Temperatura gas di scarico a valle di turbo
Exhaust gas temperature after turbocharger

############
Exhaust gas temperature after Catalyst

Riserva
Spare

Riserva
Spare

Riserva
Spare

Temperatura gas di scarico a valle di turbo
Exhaust gas temperature after turbocharger

Temperatura gas di scarico a valle di scambiatore di calore gas di scarico
Exhaust gas temperature after exhaust gas heat exchanger

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 38
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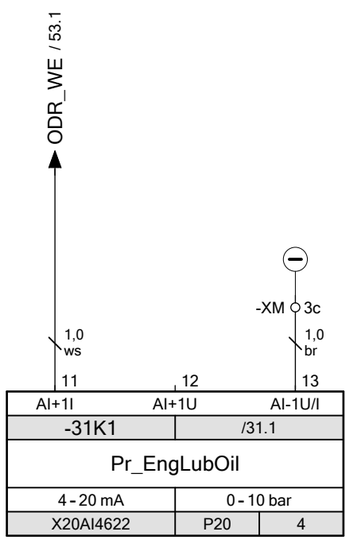
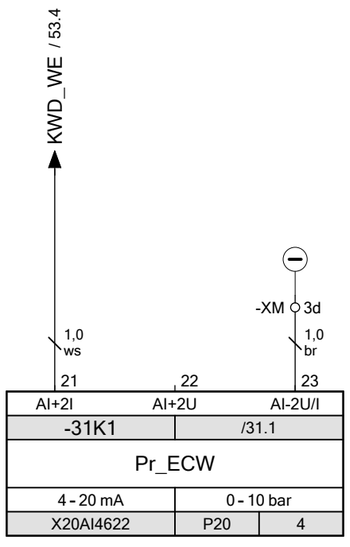
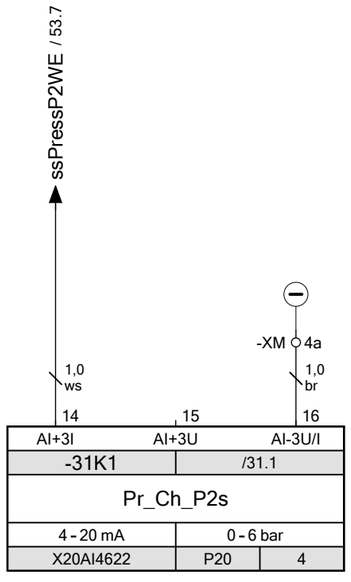


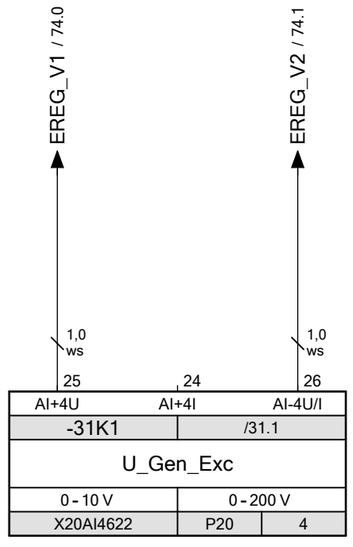
Pressione olio
Oil pressure



Press. acqua di raffreddamento
Jacket water pressure



Pressione di alimentazione p2'
Supercharge pressure p2'



Tensione di eccitazione Alternatore
Excitation voltage Generator

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 39
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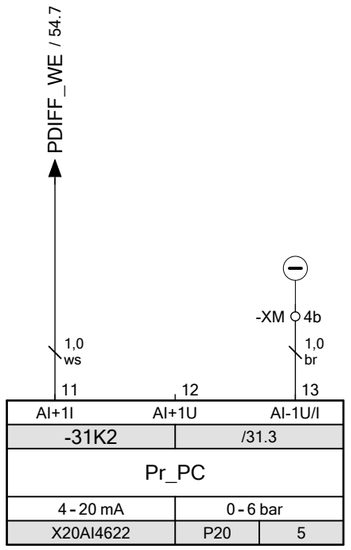
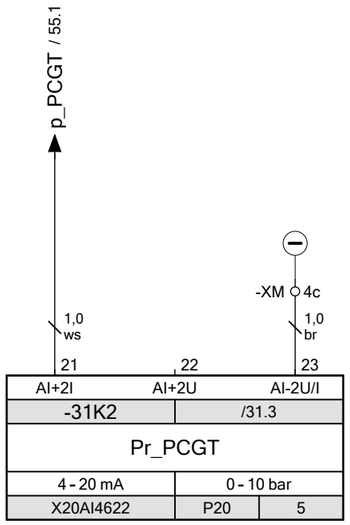
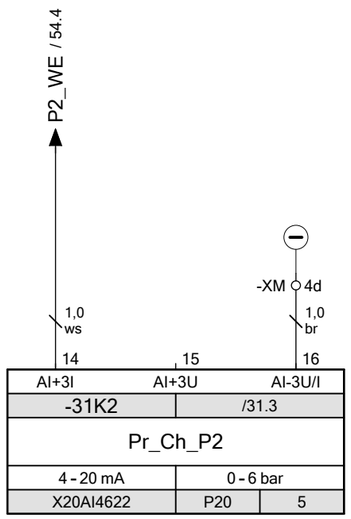


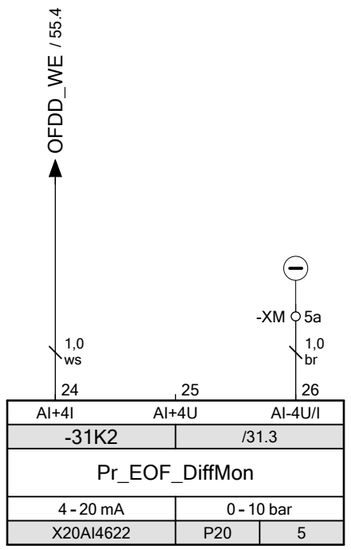
Pressione gas Precamera
Gas pressure Pre chamber



Pressione gas: Precamera - Rampa di gas
Gas pressure: Pre chamber - Gas train



Pressione di alimentazione p2
Supercharge pressure p2



Pressione diff filtro olio
Oil differential pressure

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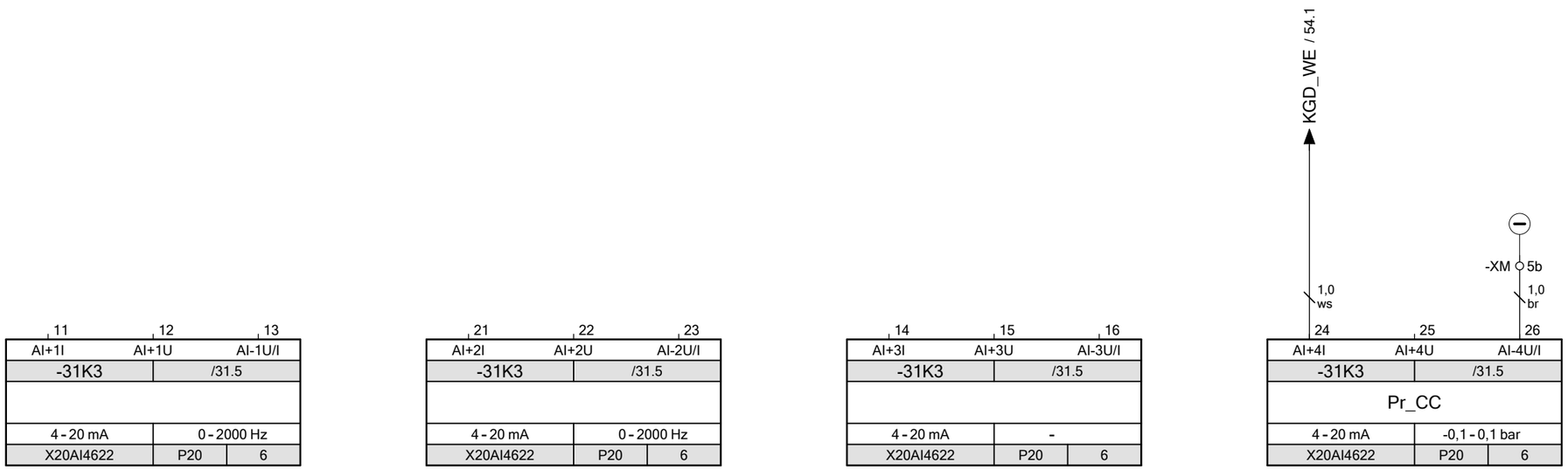

Riserva
Spare

Riserva
Spare

Riserva
Spare

Pressione: Incastellatura
Pressure: crankcase

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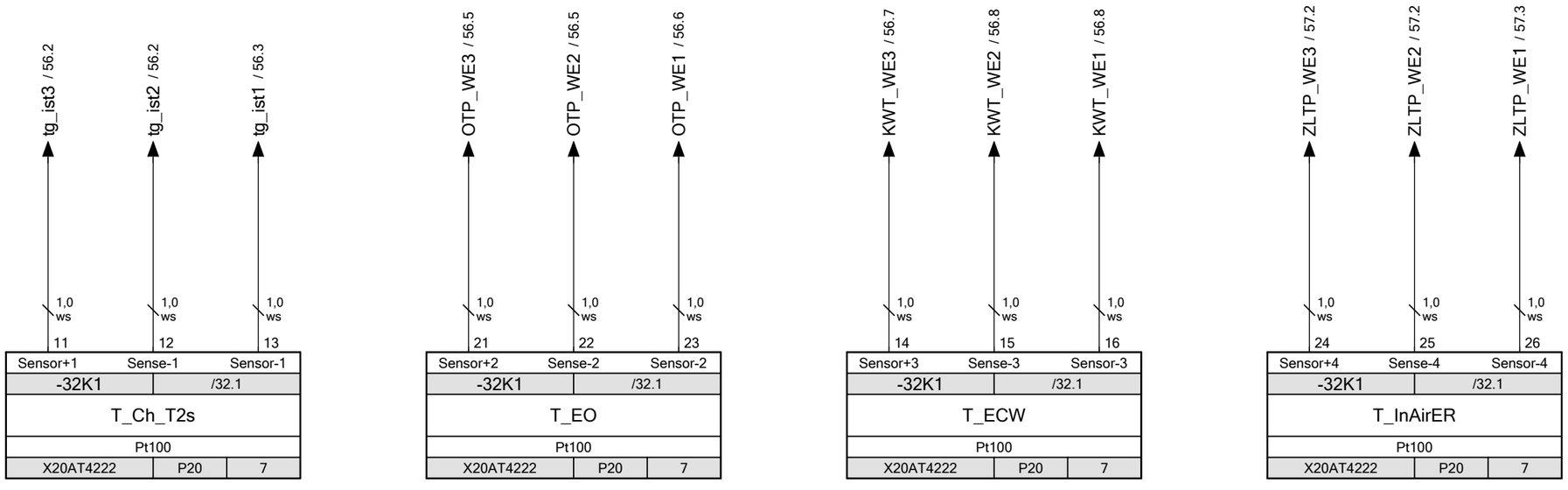

Temperatura di carica
Charge temperature

Temperatura di olio
Oil temperature

Temp. acqua di raffreddamento
Engine jacket water temperature

Temperatura aria di aspirazione
Intake air temperature

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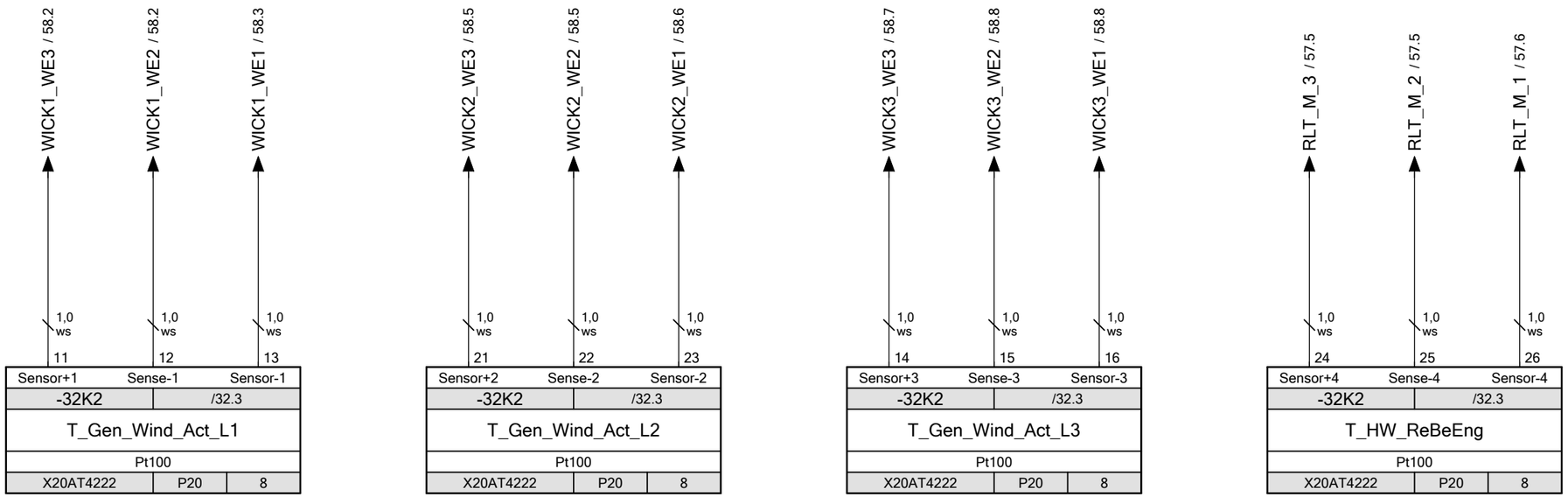

Temperatura avvolgimenti Fase U
Windings temperature Phase U

Temperatura avvolgimenti Fase V
Windings temperature Phase V

Temperatura avvolgimenti Fase W
Windings temperature Phase W

Motori a gas: Acqua di ritorno Temperatura
Gas engine: Water return Temperature

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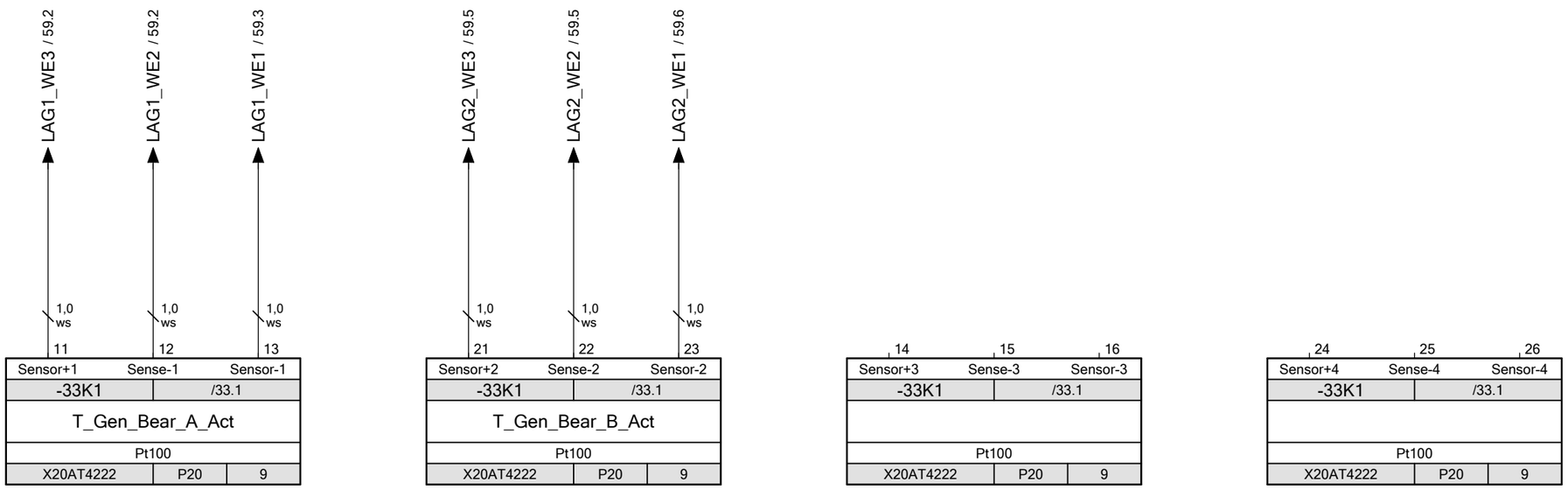

Temperatura di cuscinetto DE
Bearing temperature DE

Temperatura di cuscinetto NDE
Bearing temperature NDE

Riserva
Spare

Riserva
Spare

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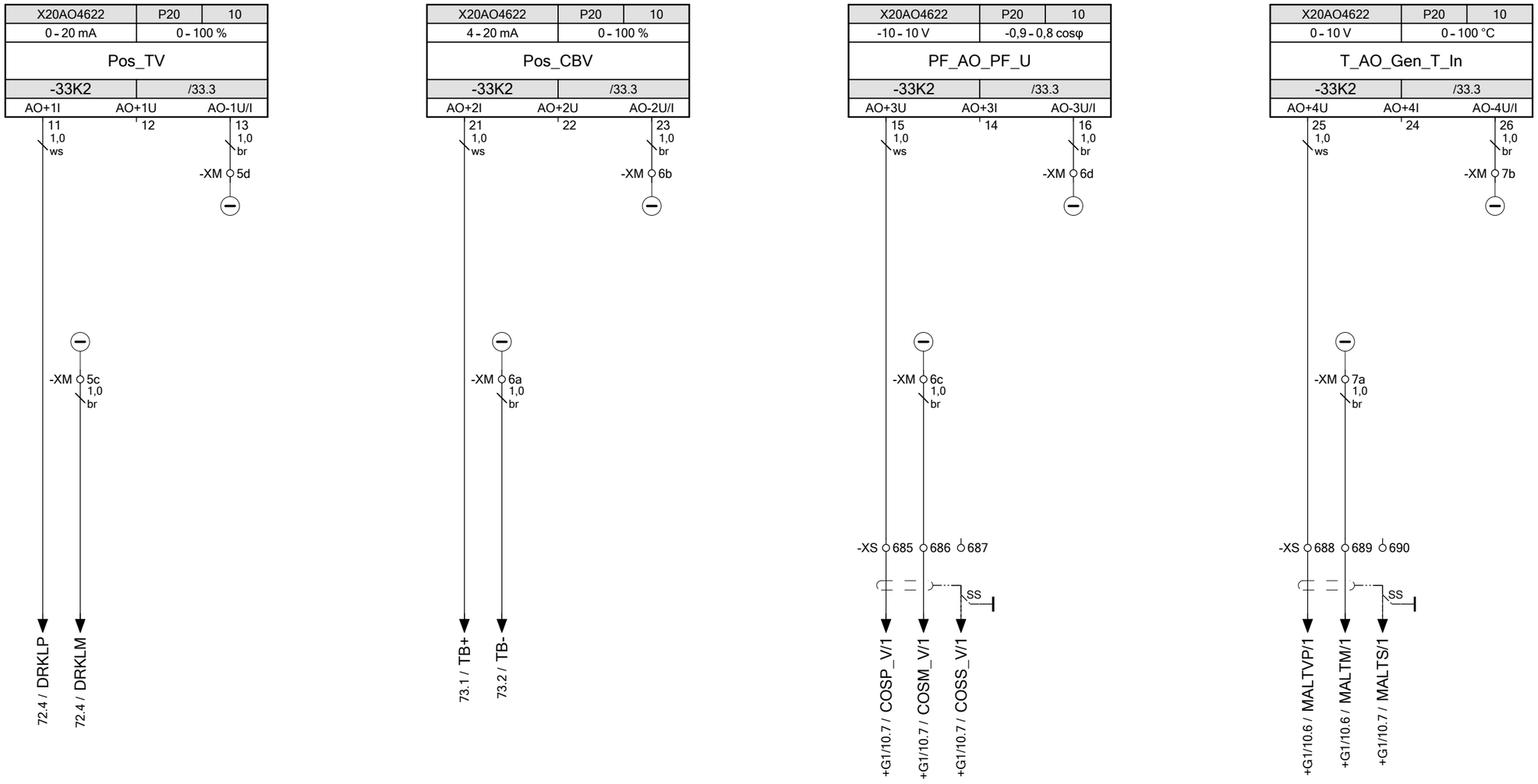

Valvola a farfalla
Throttle valve

Valvola bypass del turbo
Turbo bypass valve

Cosφ Segnale
Cosφ Signal

Valore attuale Motore Temperatura aria di aspirazione 0-10V = 0-100°C
Actual value Engine Intake air temperature 0-10V = 0-100°C

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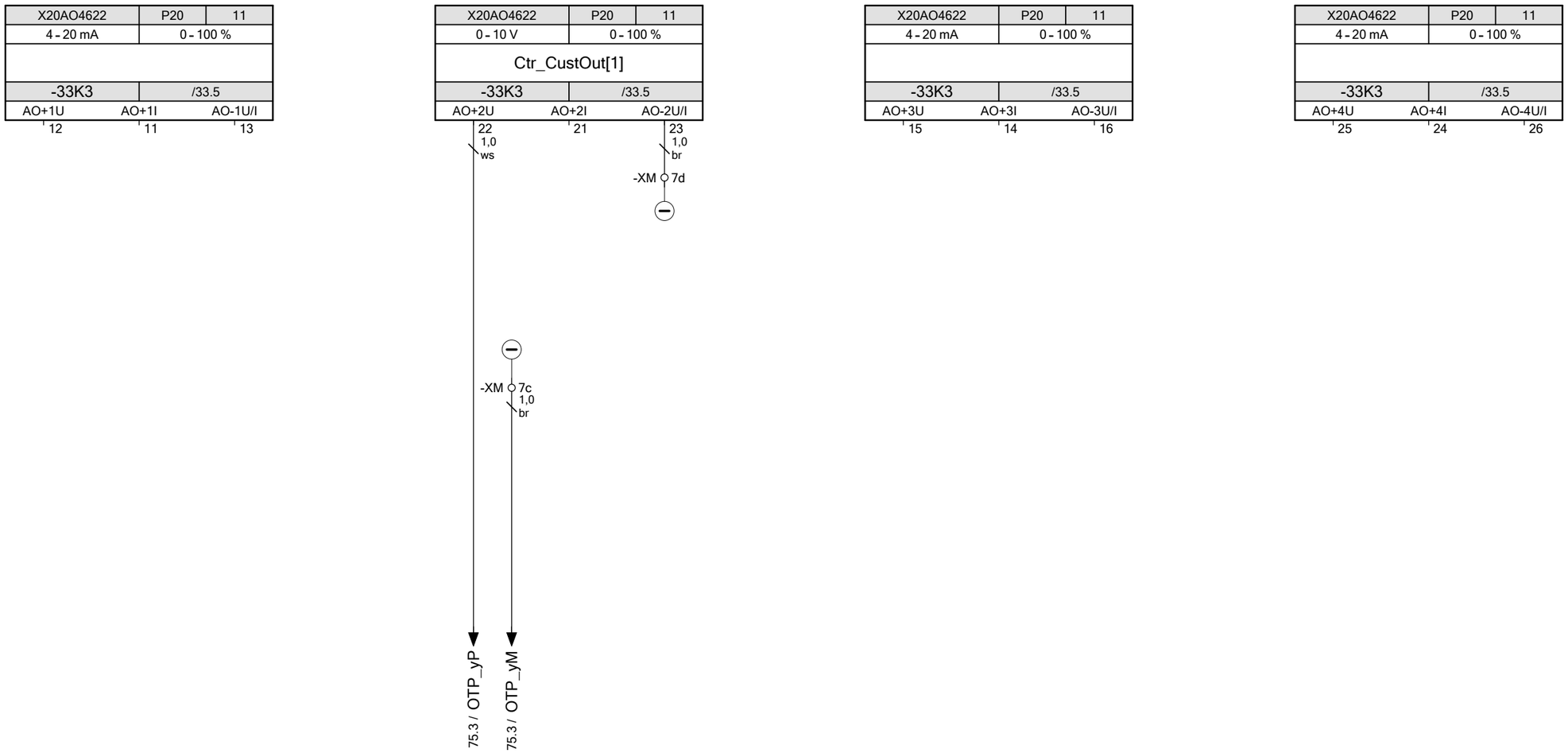

Riserva
Spare

Valvola di regolazione: Refrigeratore dell'olio
Regulator valve: Oil cooler

Riserva
Spare

Riserva
Spare

45

47

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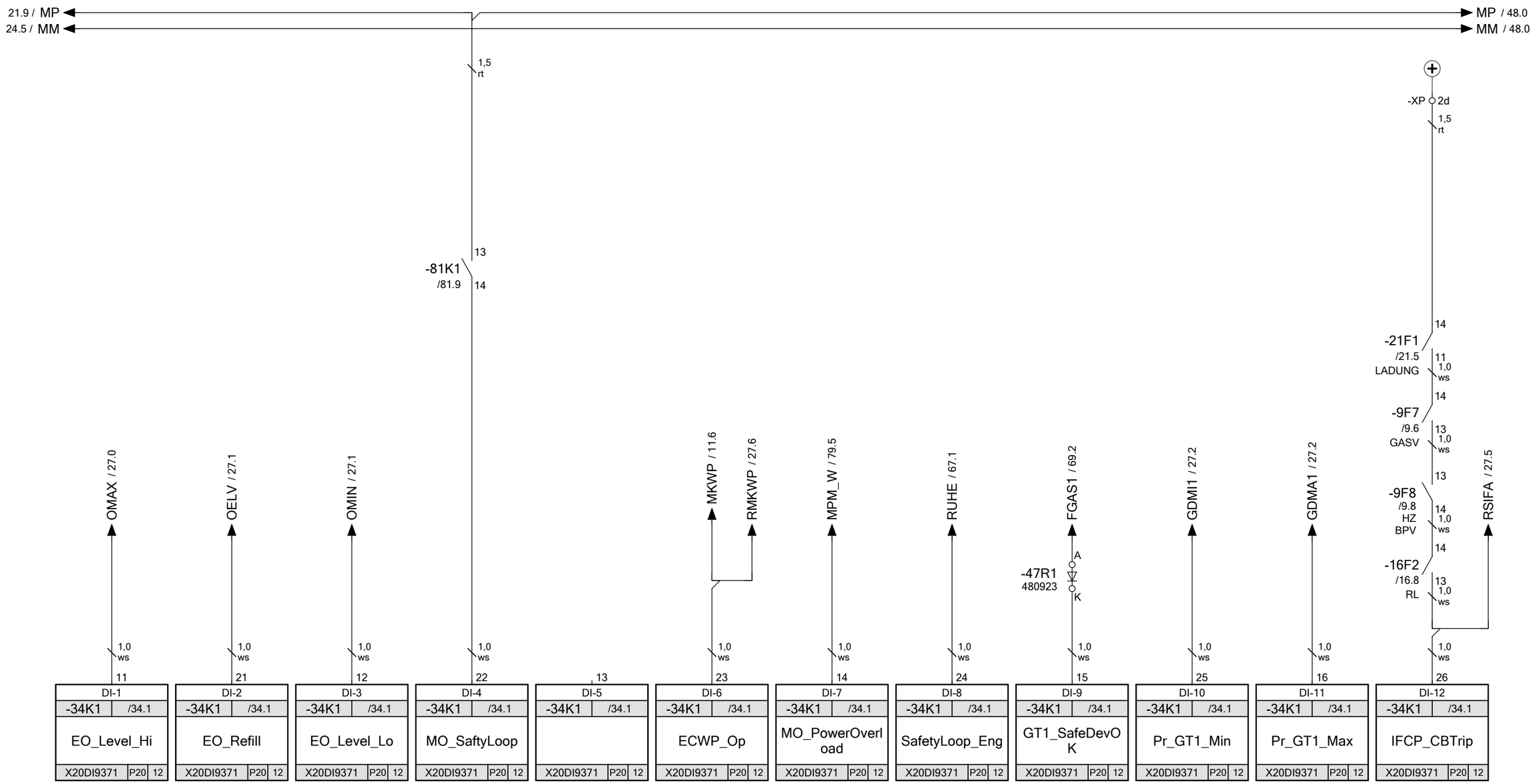
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 46
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW51	ePLAN electric P8 SGMACRO\M1_570.emp			



Riempimento olio
Refill oil

MORIS Safety loop: OK
MORIS Safety circuit: OK

Segnale di ritorno Pompa di Acqua di raffreddamento motore
Feed back Engine jacket water pump

Corrente di riposo circuito
Fail Safe Loop

Pressione gas min Rampa di gas 1
Gas pressure min Gas train 1

Disturbo fusibili
Circuit breaker tripped

Livello olio massima fermo
Oil level max Shut down

Livello olio min fermo
Oil level min Shut down

Riserva
Spare

MPM: Sovracarico
MPM: Overload

Controllo di tenuta gas 1
Gassafety device 1

Pressione gas massima Rampa di gas 1
Gas pressure max Gas train 1

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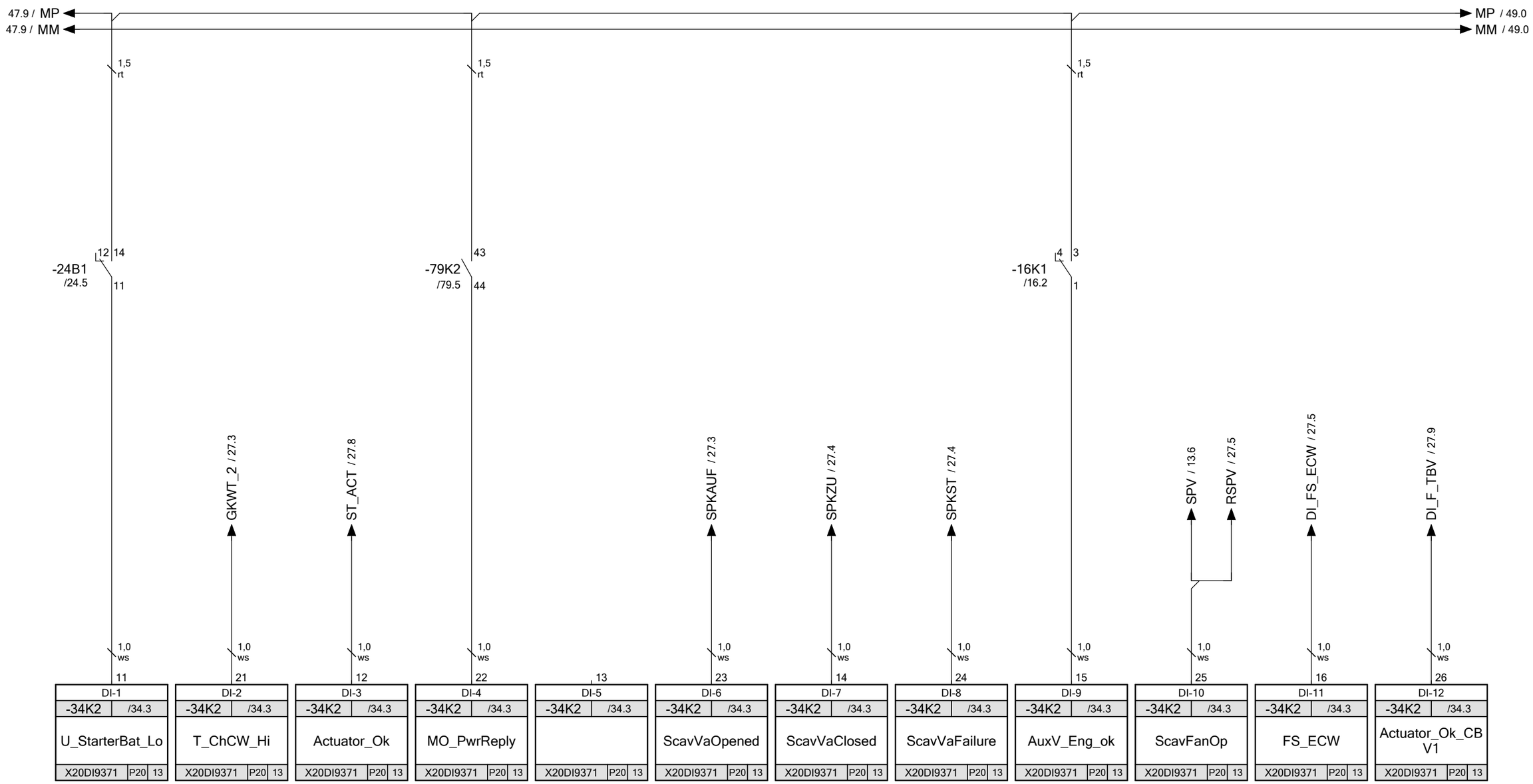
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 47
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric B SGMACRO\M1_612.emp			



Temperatura massima: Acqua raffreddamento carica 2
Temperature max: Charge cooling water 2

Servizio: Accesione
Operation: Ignition

Serranda di lavaggio aperto
Scavenging flap open

Disturbo: Serranda di lavaggio
Failure: Scavenging flap

Disturbo: Ventilatore di lavaggio
Failure: Scavenging fan

Disturbo Valvola bypass del turbo
Failure Turbo bypass valve

Batteria: Tensione min
Battery: Voltage min

Disturbo Valvola a farfalla
Failure Throttle valve

Riserva
Spare

Serranda di lavaggio chiuso
Scavenging flap closed

Ausiliari Tensione OK
Auxiliaries Voltage OK

Pompa preriscaldamento: OK
Preheating pump: OK

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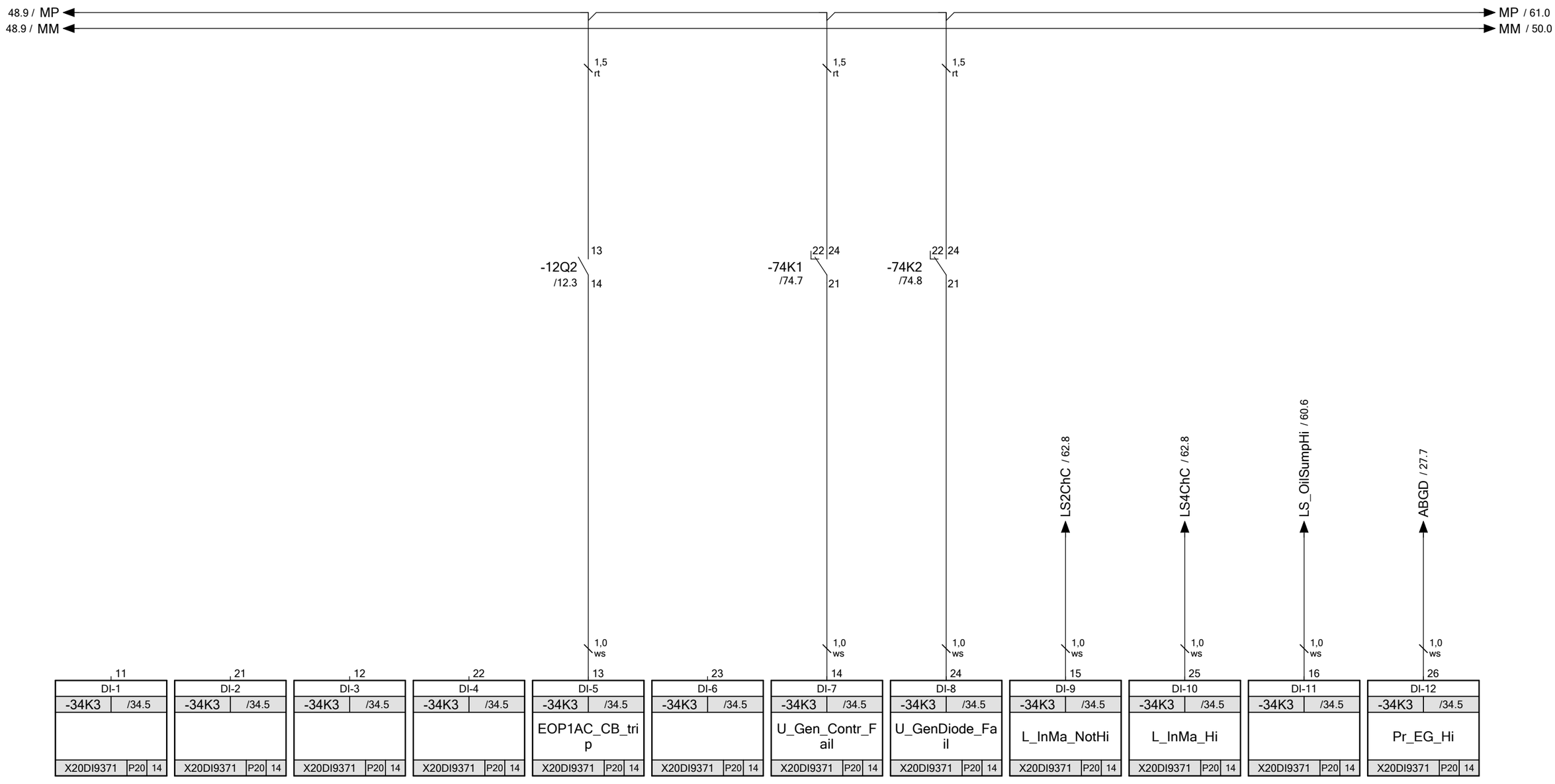
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 48
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_621.emp			



Riserva
Spare

Riserva
Spare

Riserva
Spare

Diodo Allarme
Diode Alarm

Penetrazione acqua Circuito carica
Water seep into Charge circuit

Pressione contra gas di scarico massima
Exhaust gas backpressure max

Riserva
Spare

Riserva
Spare

Pompa olio AC: Tensione OK
Oil pump AC: Voltage OK

Disturbo: Regolatore generatore
UNITROL1010
Failure: Generator controller UNITROL1010

Penetrazione acqua Circuito carica
(Corrente di riposo)
Water seep into Charge circuit (Fail safe)

Riserva
Spare

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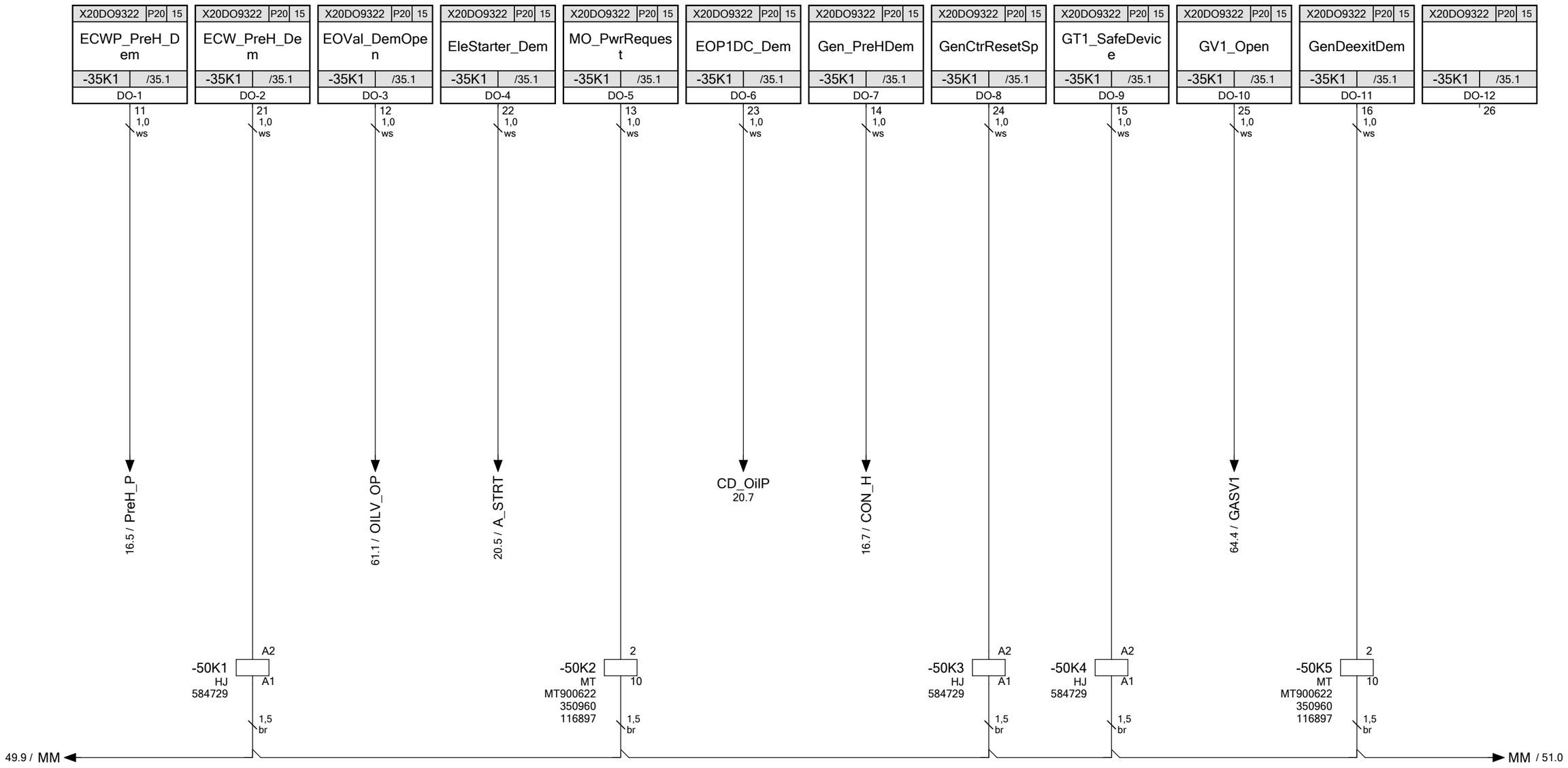

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 50
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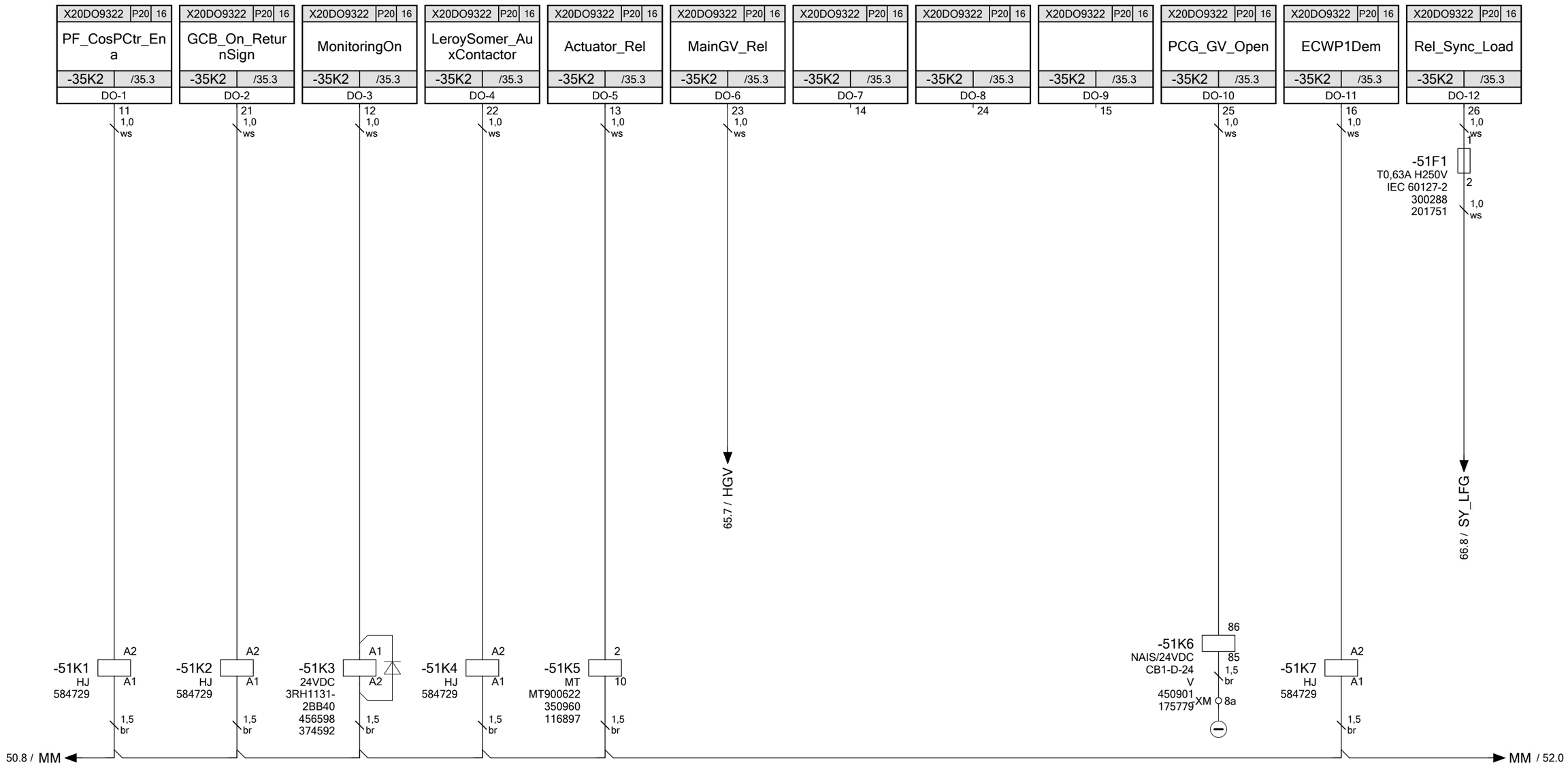

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 51
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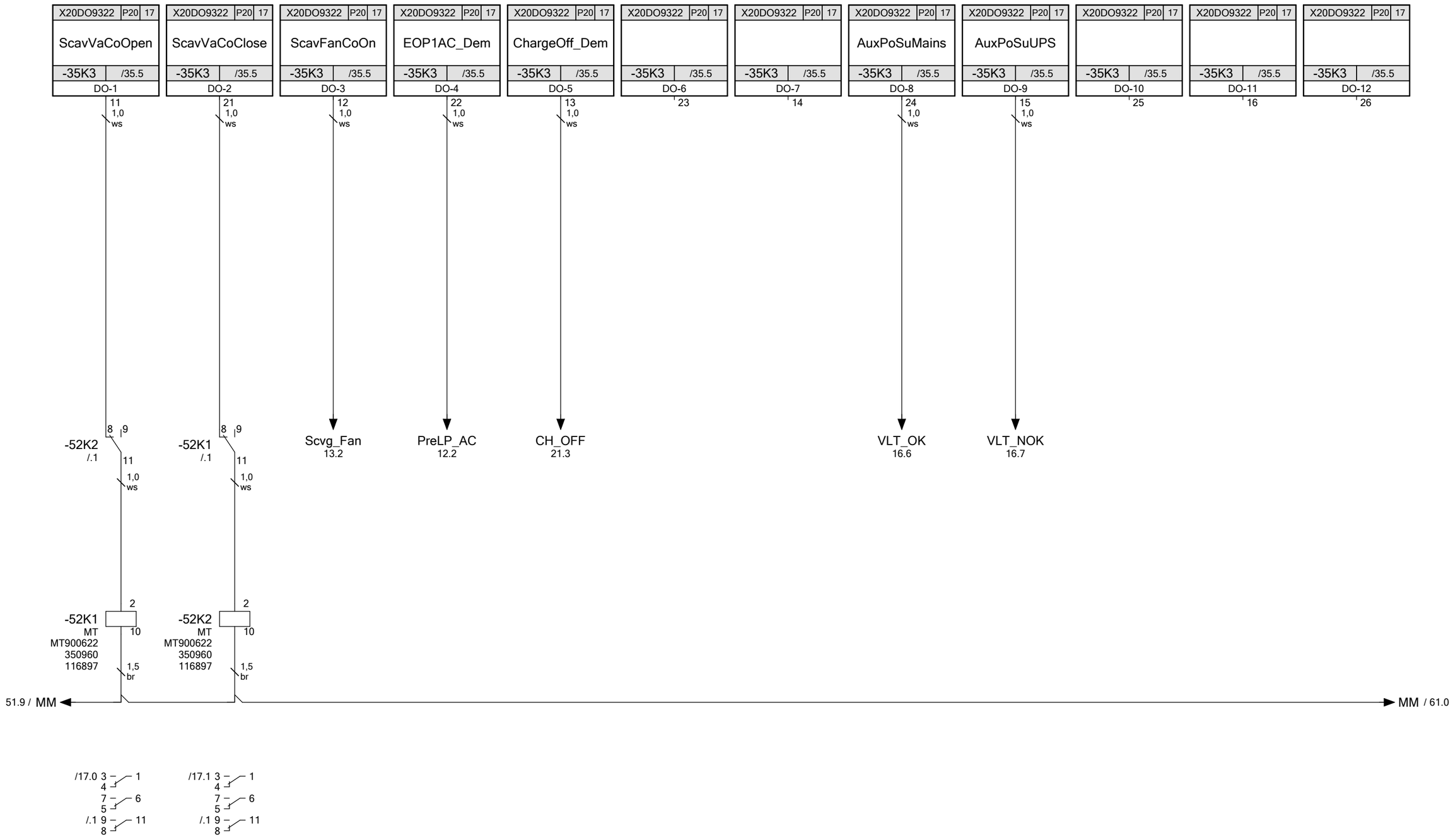

Serranda di lavaggio: chiudere Scavenging flap: close	Richiesta Pompa olio AC Demand Oil pump AC	Riserva Spare	Tensione Ausiliari OK Voltage Auxiliaries OK
Riserva Spare	Riserva Spare		

Serranda di lavaggio: aprire Scavenging flap: open	Ventilatore di lavaggio Scavenging fan	Disinserimento: Carica Switch off: Charge	Riserva Spare	Tensione Ausiliari: disturbo Voltage Auxiliaries: failure
Riserva Spare				

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 52
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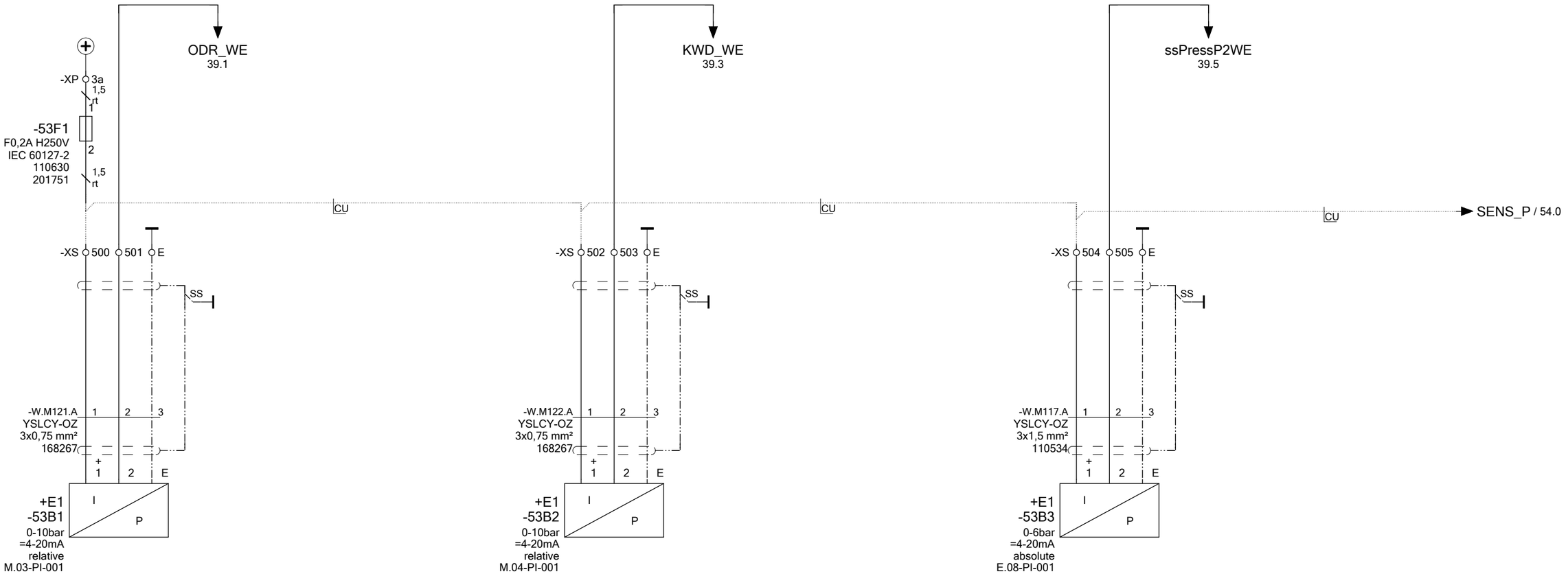

Pressione olio
Oil pressure

Press. acqua di raffreddamento
Jacket water pressure

Pressione di alimentazione
Supercharge pressure

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 53
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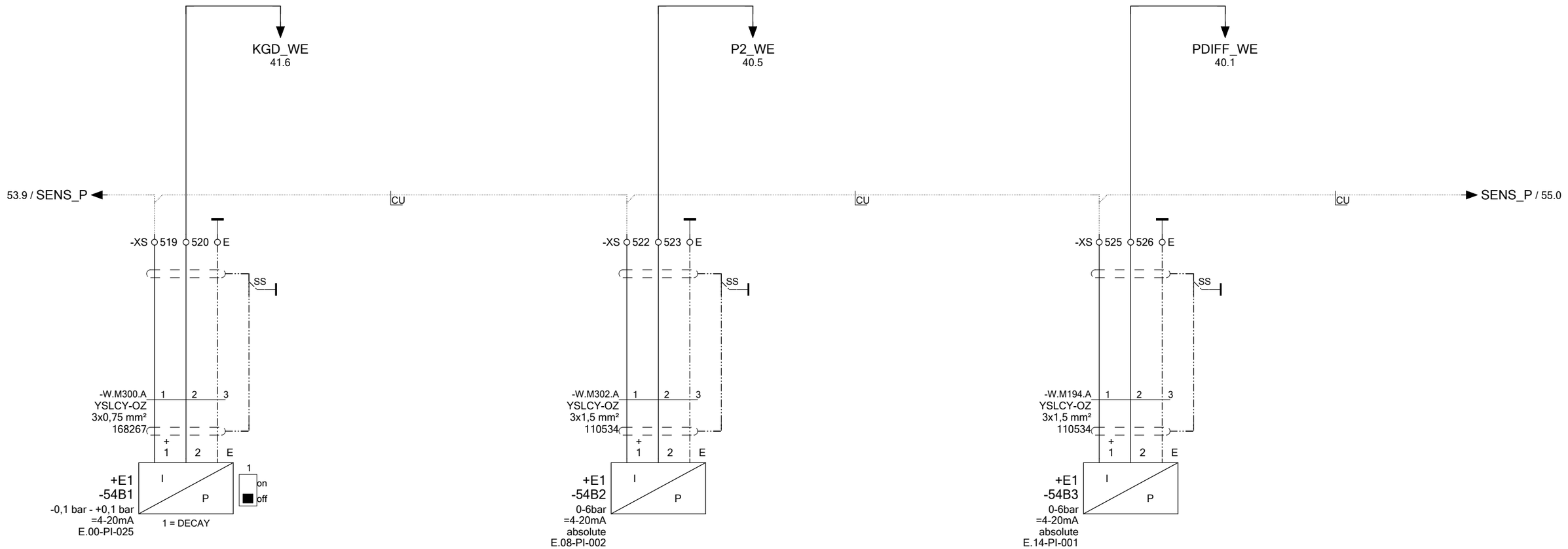

Pressione basamento
Crankcase pressure

Pressione di alimentazione P2
Supercharge pressure P2

Precamera: Pressione gas
Pre chamber: Gas pressure

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 54
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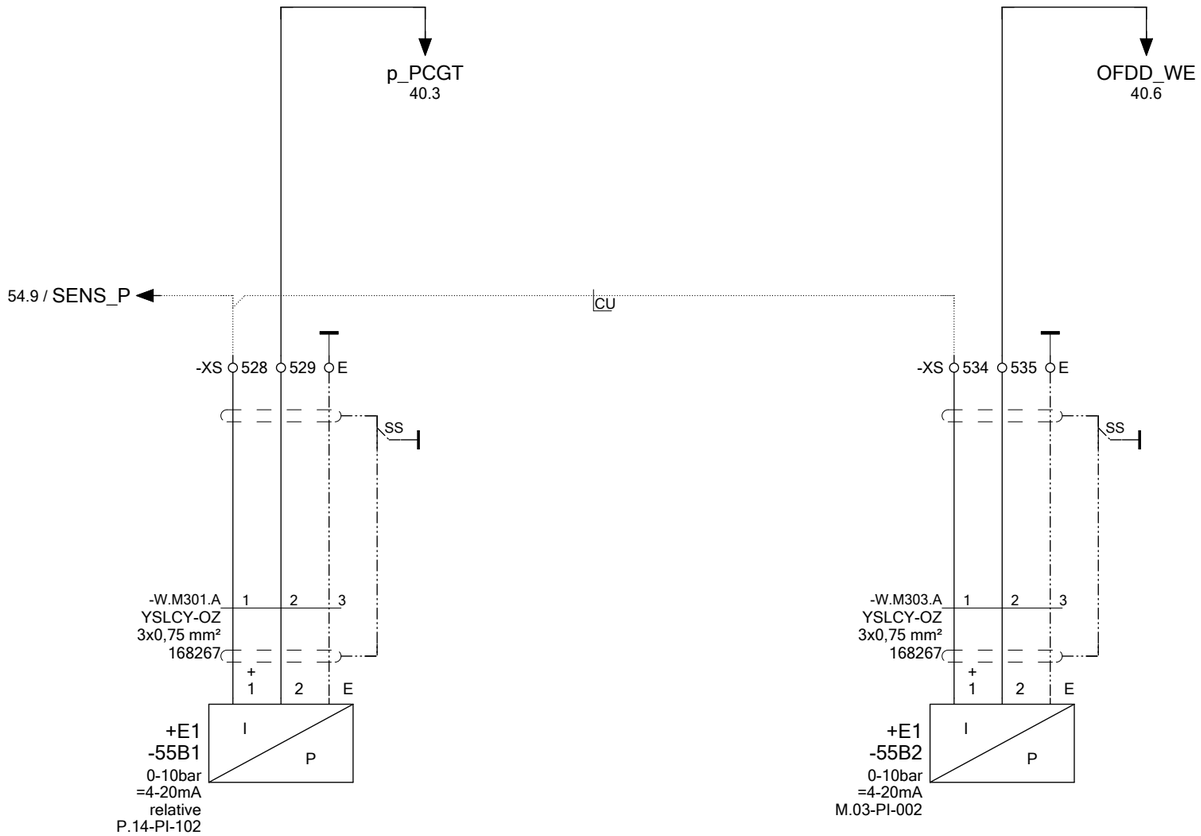

Precamera Rampa di gas: Pressione gas
Pre chamber Gas train: Gas pressure

Pressione diff filtro olio
Oil differential pressure

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 55
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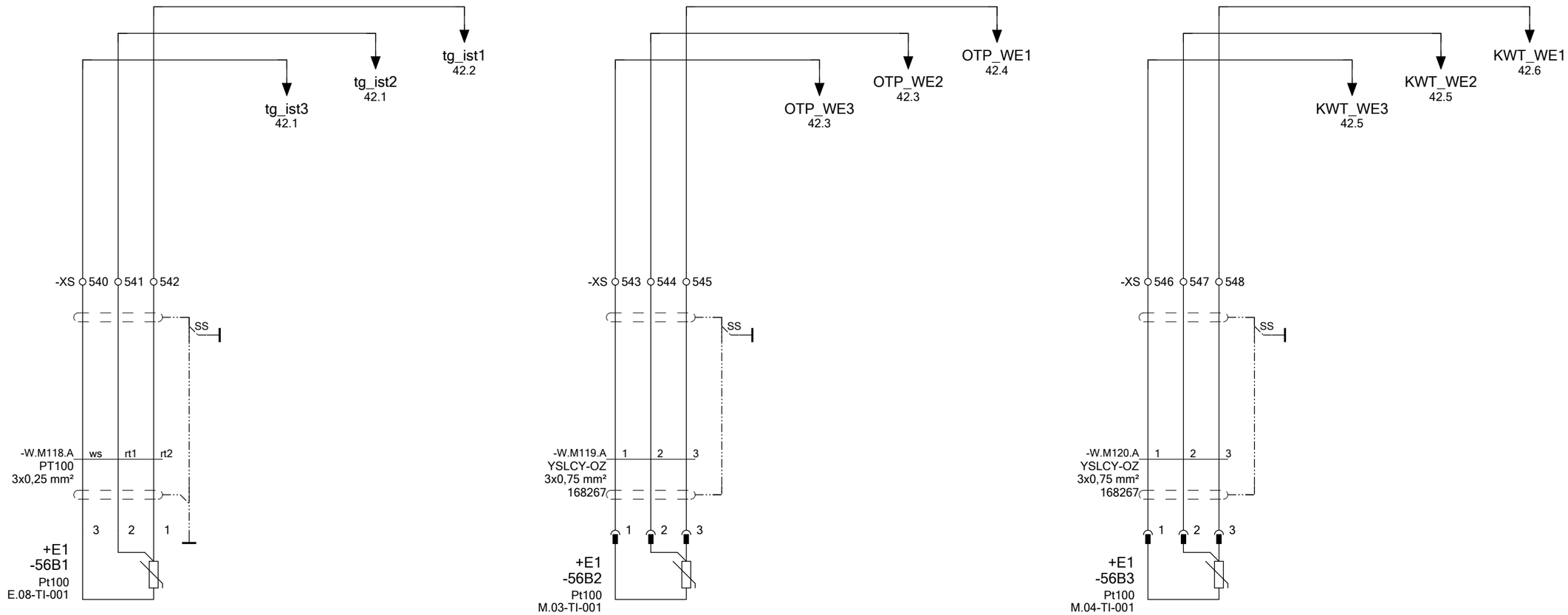

Temperatura di carica
Charge temperature

Temperatura di olio
Oil temperature

Temp. acqua di raffreddamento
Engine jacket water temperature

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 56
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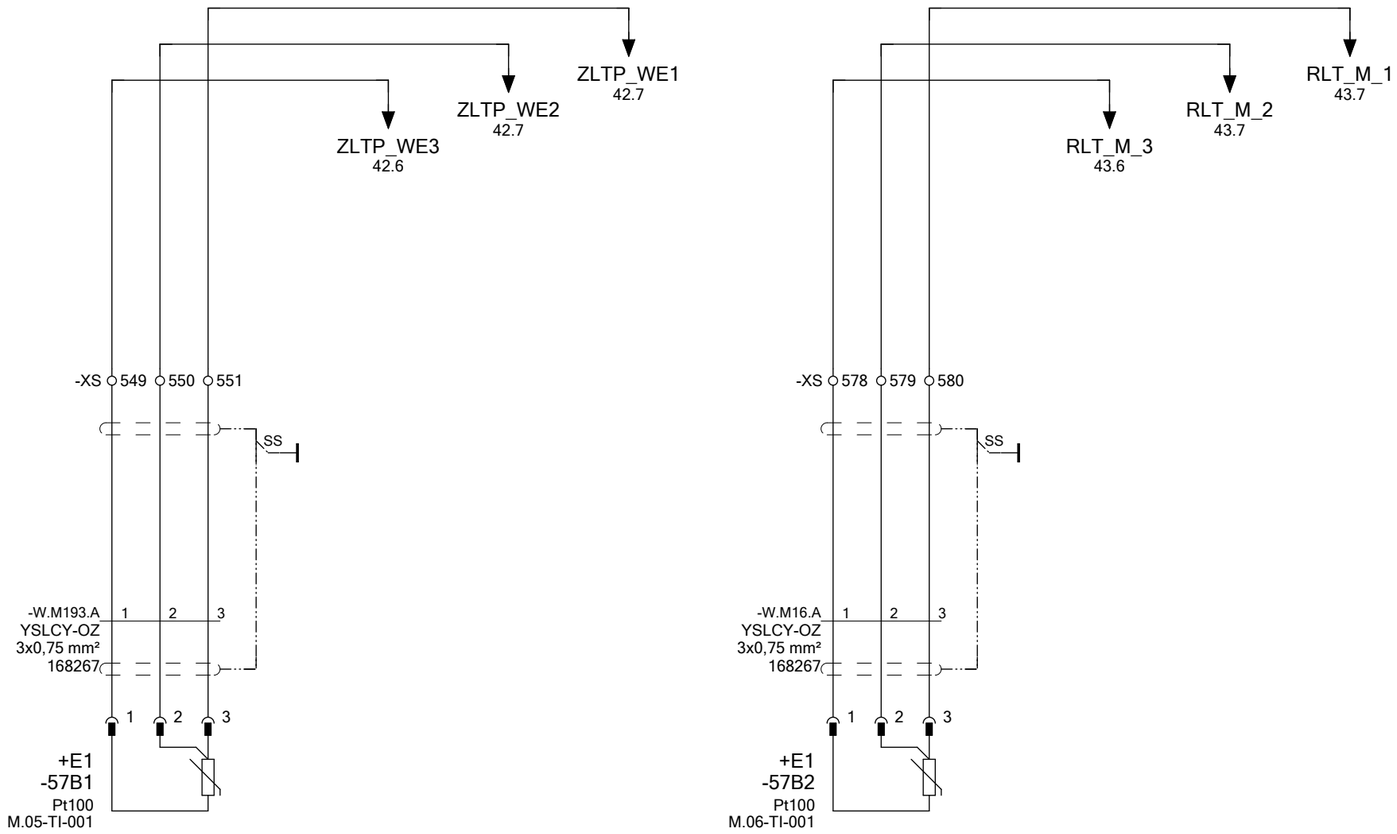

Temperatura aria di aspirazione
Intake air temperature

Motori a gas: Acqua di ritorno Temperatura
Gas engine: Water return Temperature

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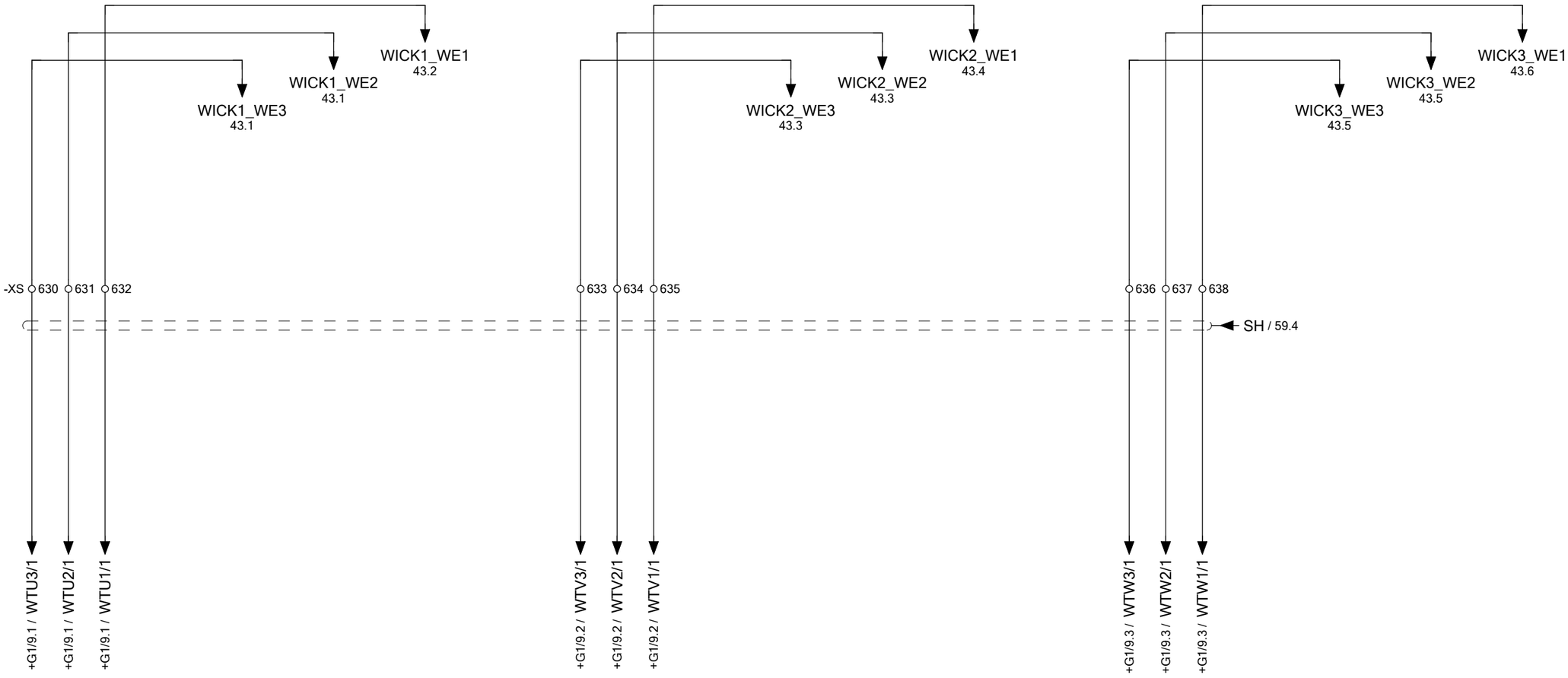

Temperatura avvolgimenti Fase U
Windings temperature Phase U

Temperatura avvolgimenti Fase V
Windings temperature Phase V

Temperatura avvolgimenti Fase W
Windings temperature Phase W

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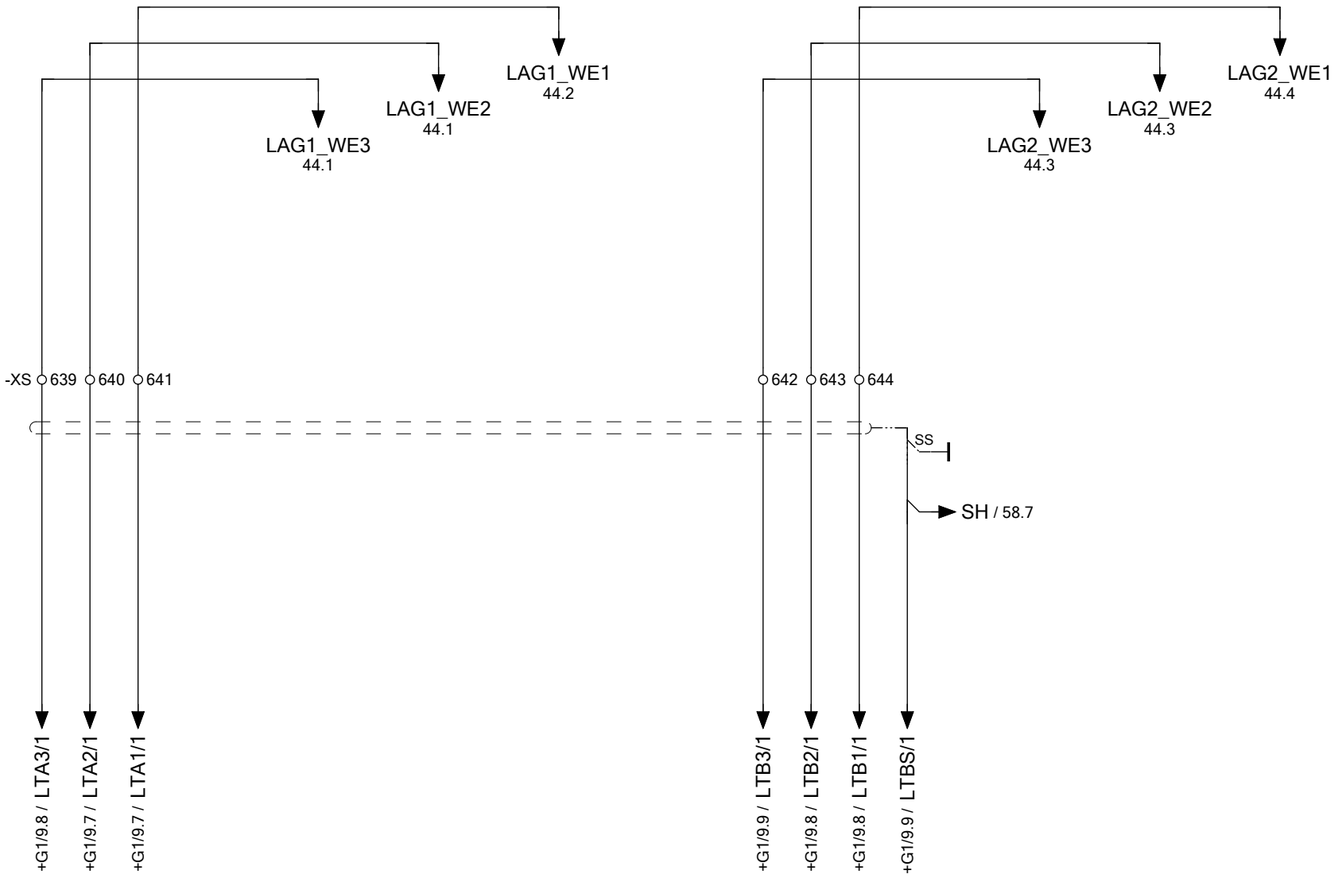

Temperatura di cuscinetto DE
Bearing temperature DE

Temperatura di cuscinetto NDE
Bearing temperature NDE

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			Desig.	Streiter Daniela				Suffix	+ M1
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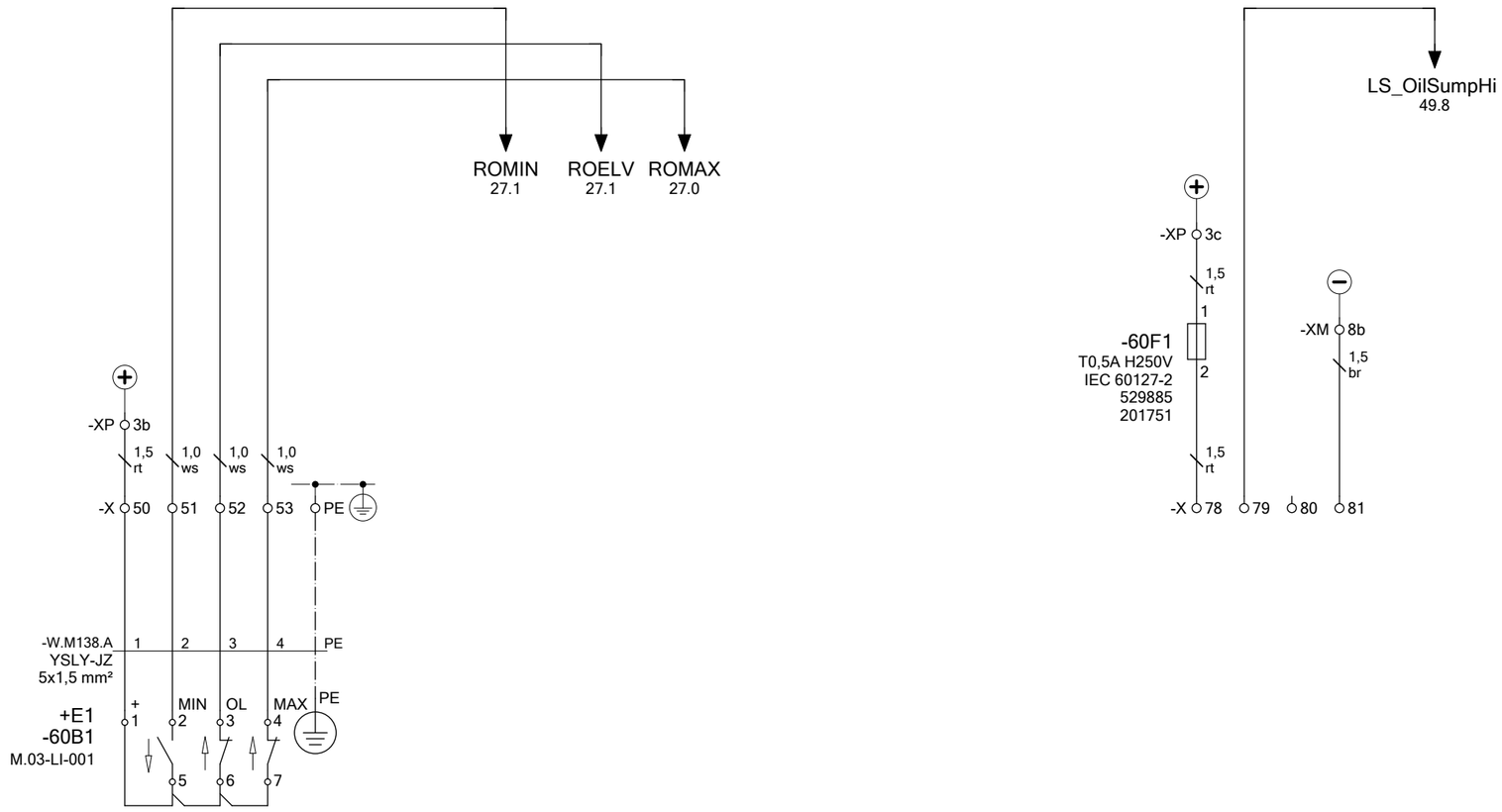

Livello olio: Motori a gas
Oil level: Gas engine

Riserva
Spare

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 60
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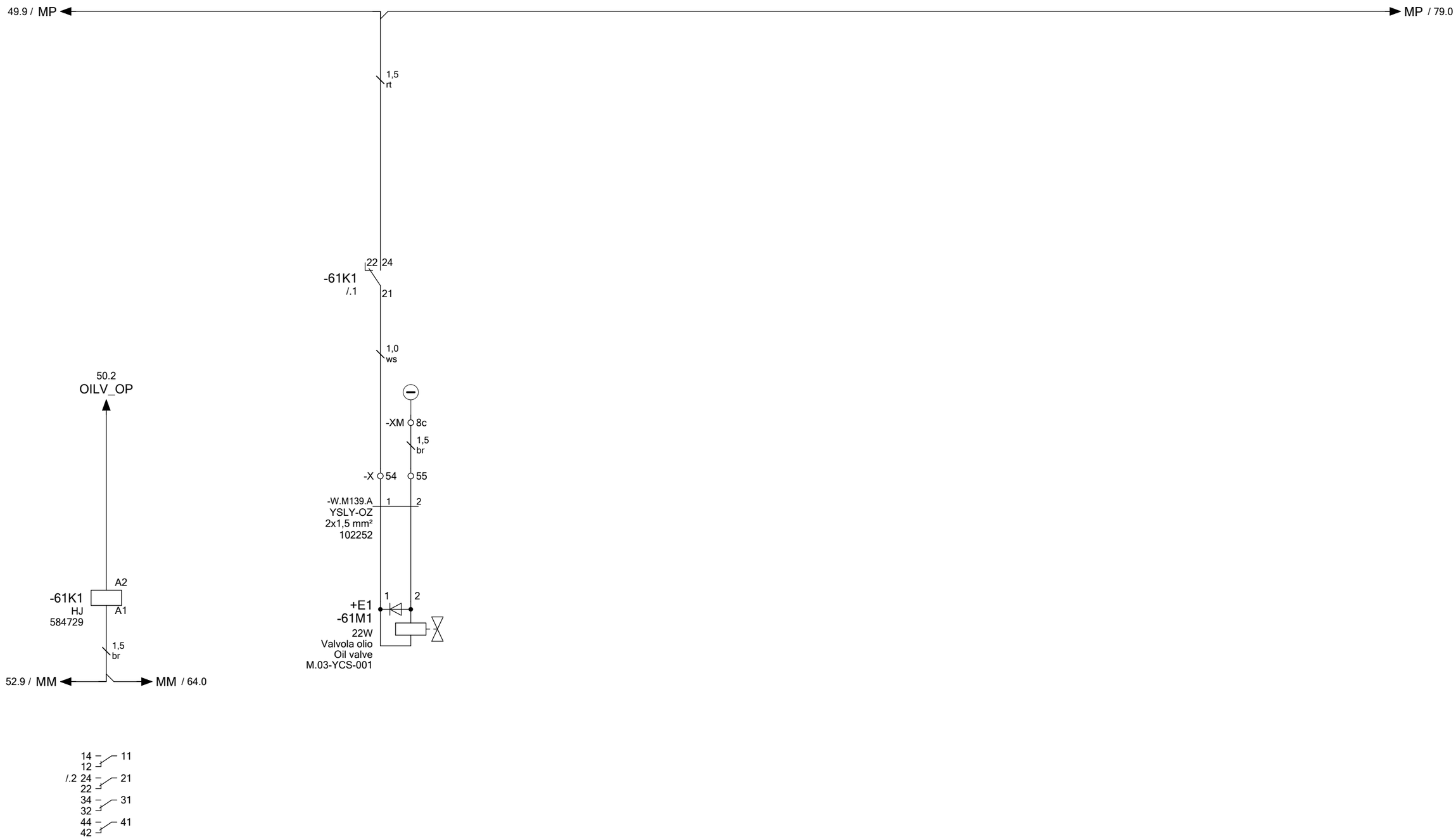

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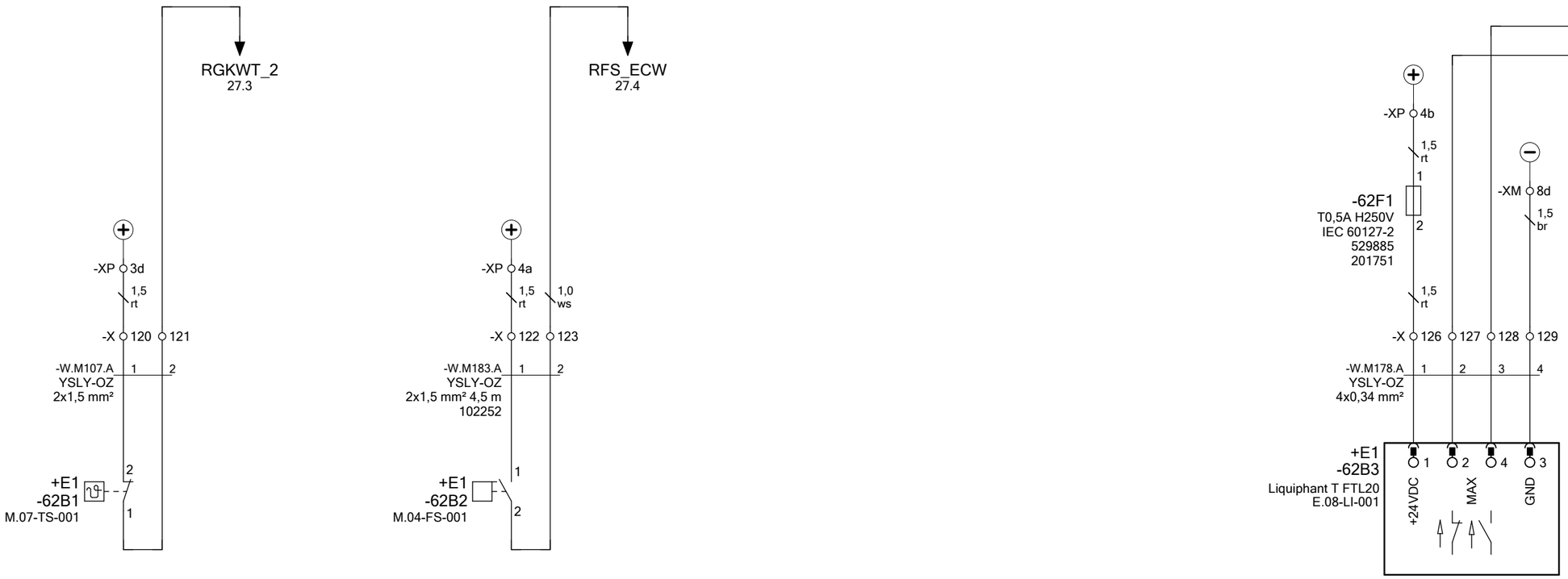
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sorveglianza: Motori a gas Monitoring: Gas engine	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 61
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric 8 SGMACRO\M1_881.emp			



Temperatura massima: Acqua raffreddamento carica 2
Temperature max: Charge cooling water 2

###########
Flow Preheating OK

Sensori: Penetrazione acqua
Sensor: Water seep into

61

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sorveglianza: Motori a gas Monitoring: Gas engine	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 62
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric 8 SGMACRO\M1_886.emp			

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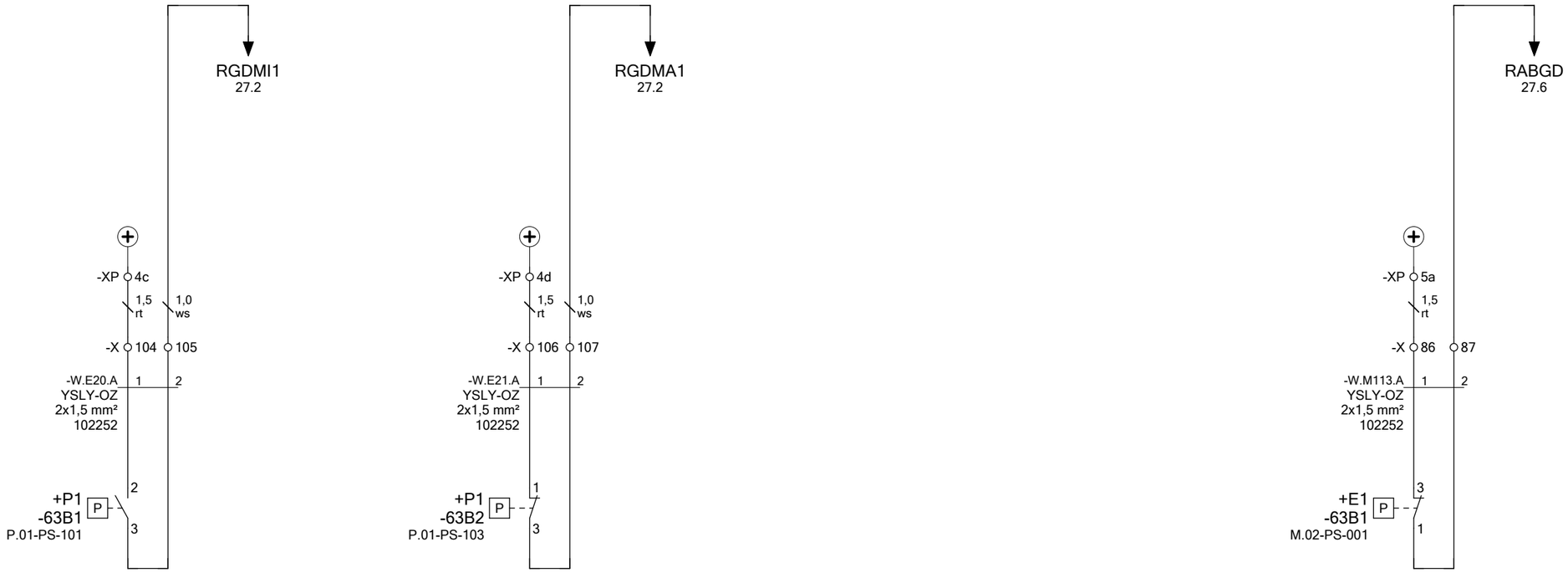

Pressione gas min Rampa di gas 1
Gas pressure min Gas train 1

Pressione gas massima Rampa di gas 1
Gas pressure max Gas train 1

Pressione contra gas di scarico massima
Exhaust gas backpressure max

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sorveglianza: Pressione gas Monitoring: Gas pressure	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 63
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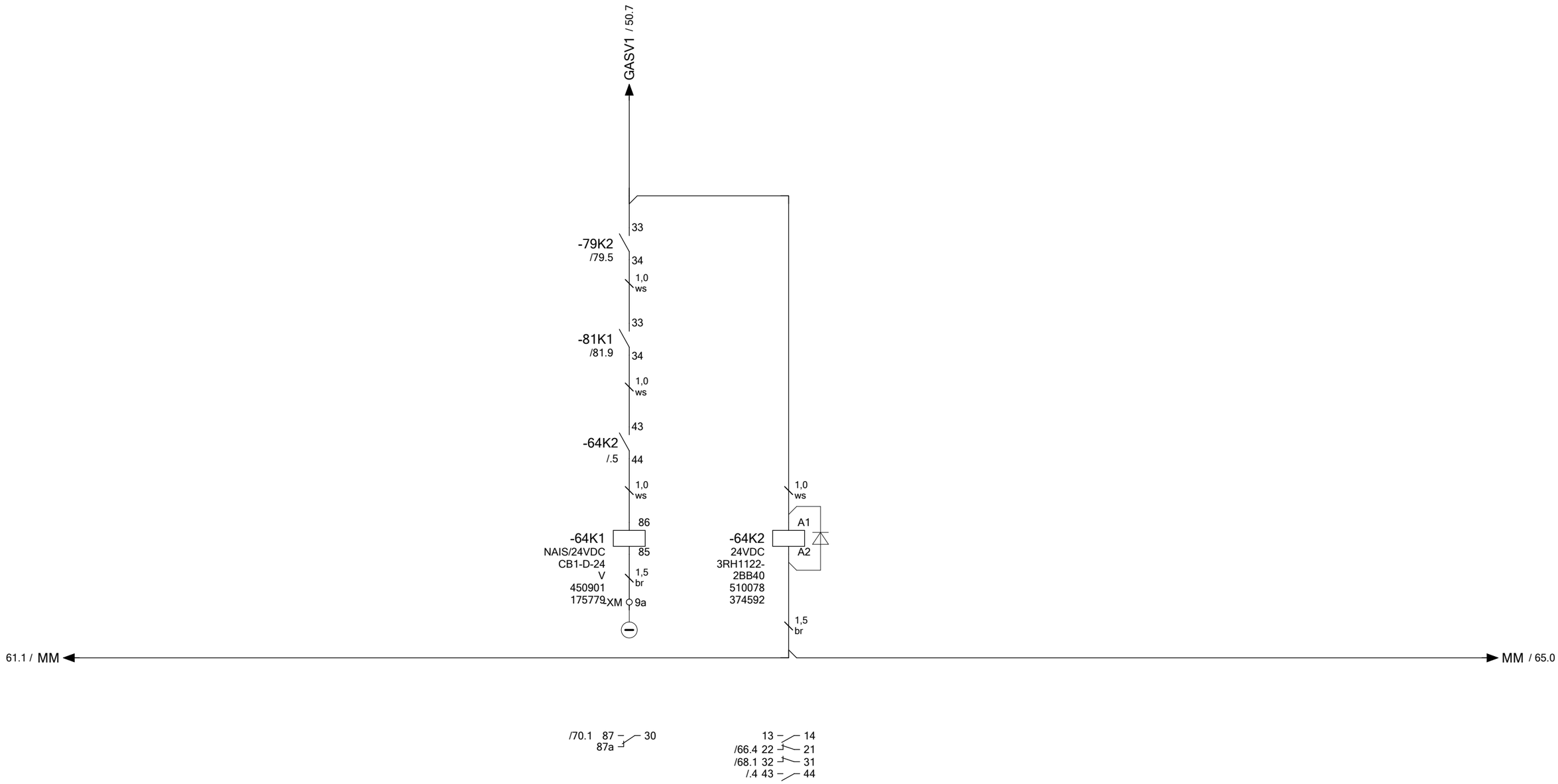

Valvole di gas - Rampa di gas 1
Gas valves - Gas train 1

Valvole di gas - Rampa di gas 1
Gas valves - Gas train 1

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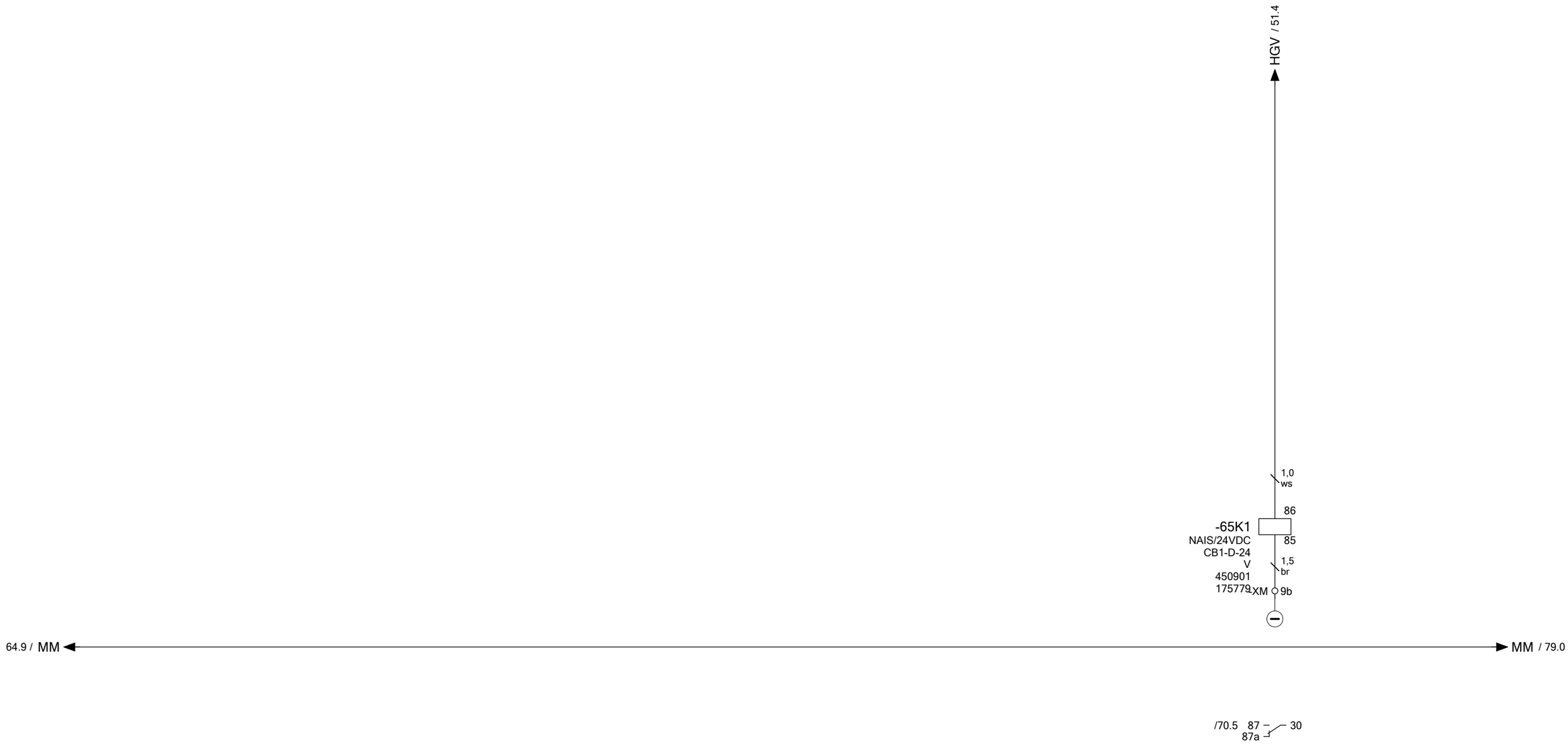
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Comando Valvole di gas Control Gas valves	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 64
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_920.emp			



Valvola principale del gas
Main gas valve

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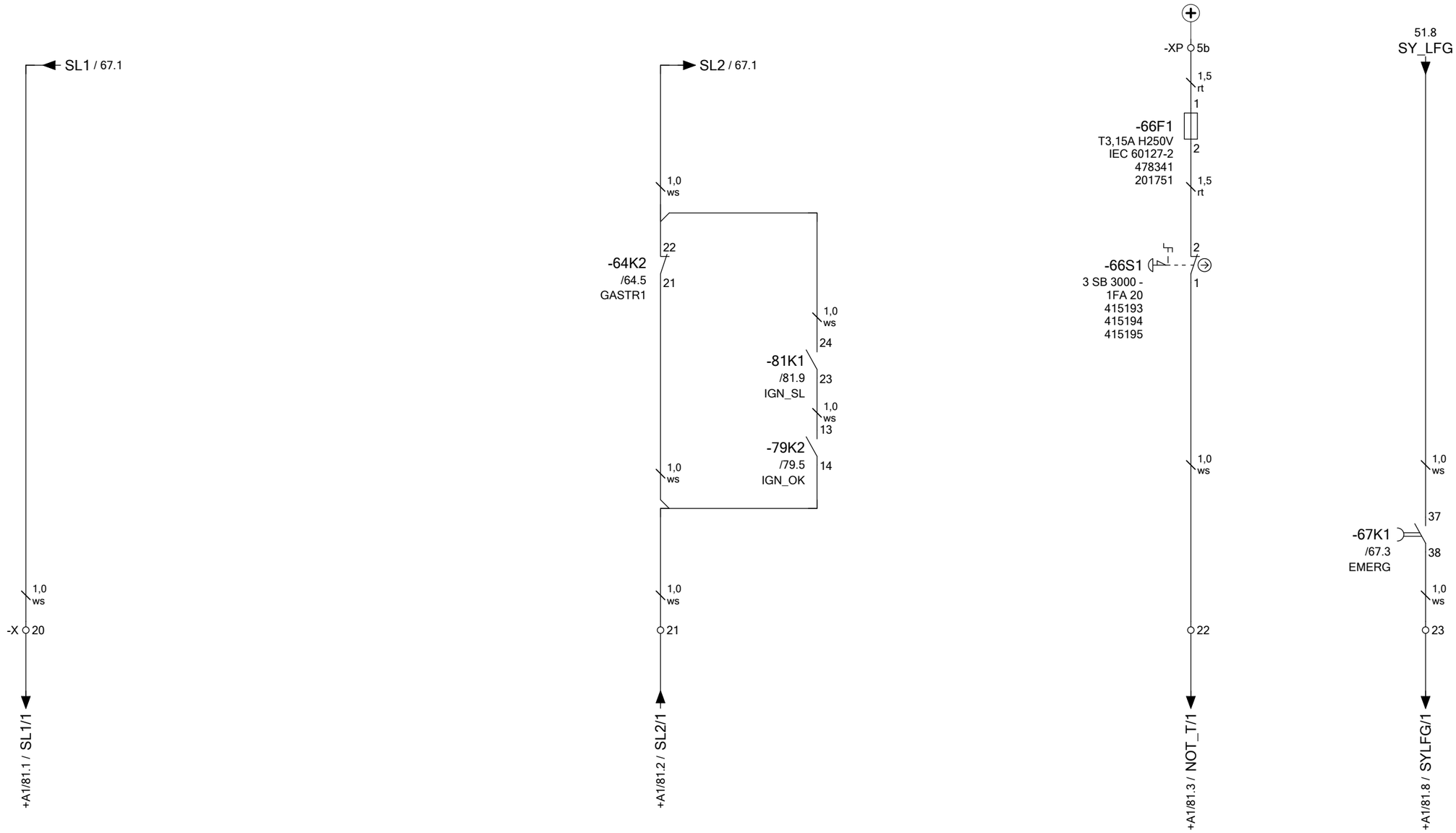
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Comando Valvole di gas Control Gas valves	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 65
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_924.emp			



Arresto di emergenza
Emergency stop

Arresto di emergenza Tasto
Emergency stop Push button

Arresto di emergenza
Emergency stop

Arresto di emergenza
Emergency stop

Arresto di emergenza Tasto Termoreattore
Emergency stop Push button Thermoreactor

###########
Syncronising and load release

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Arresto di emergenza Emergency stop	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 66
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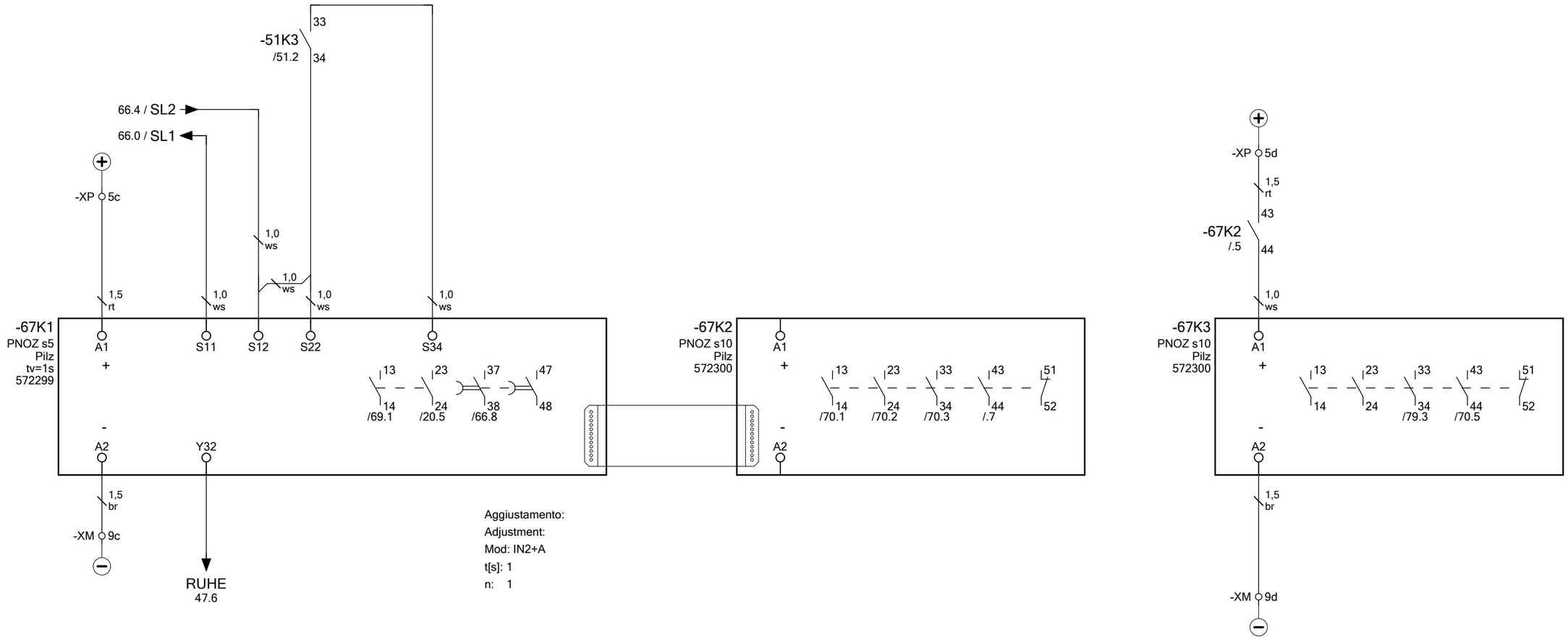

Aggiustamento:
Adjustment:
Mod: IN2+A
t[s]: 1
n: 1

Arresto di emergenza Rele
Emergency stop Relay

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Arresto di emergenza Rele
Emergency stop Relay

Arresto di emergenza Rele
Emergency stop Relay

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Arresto di emergenza Rele Emergency stop Relay	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 67
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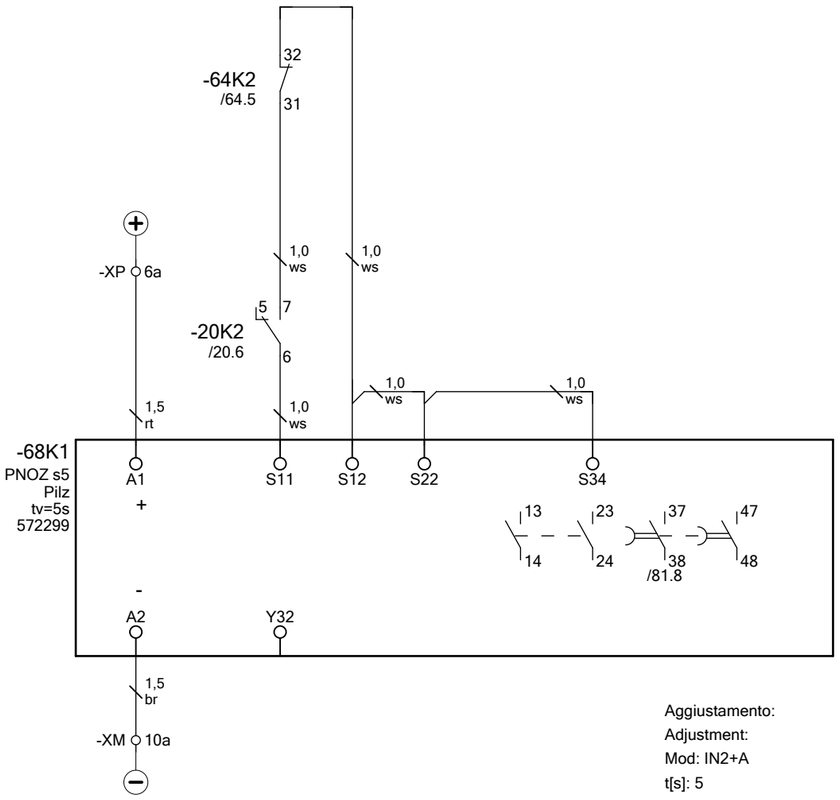

Aggiustamento:
Adjustment:
Mod: IN2+A
t[s]: 5
n: 1

Arresto di emergenza Rele
Emergency stop Relay

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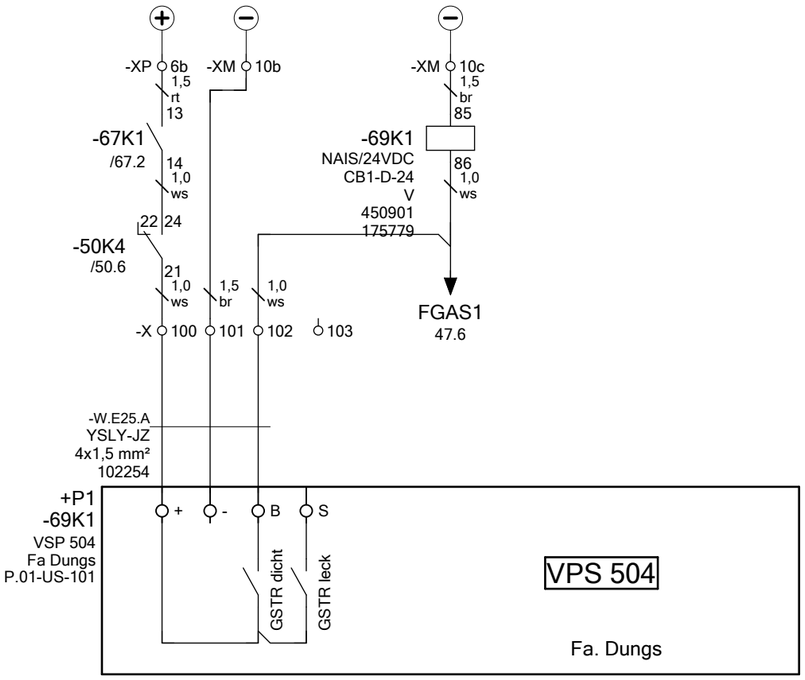
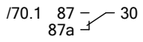
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Arresto di emergenza Rele Emergency stop Relay	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 68
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric 8 SGMACRO\M1_956.emp			





Controllo di tenuta gas 1
Gassafety device 1

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Controllo di tenuta gas Gassafety device	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 69
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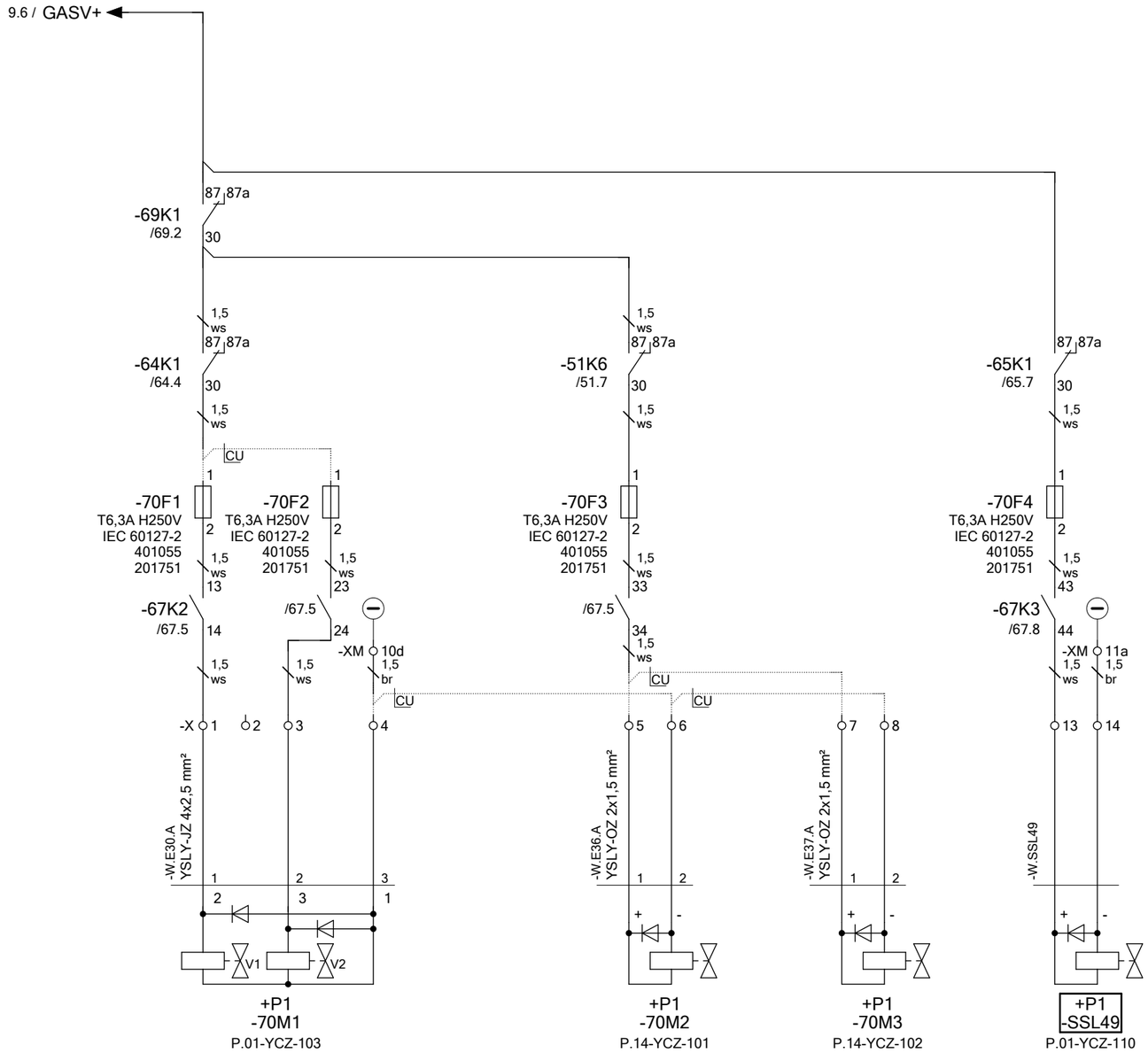

Valvole gas precamera
Pre chamber gas valves

Valvola di gas 1 Rampa di gas 1
Gas valve 1 Gas train 1

Valvole gas precamera
Pre chamber gas valves

Valvola principale del gas
Main gas valve

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 70
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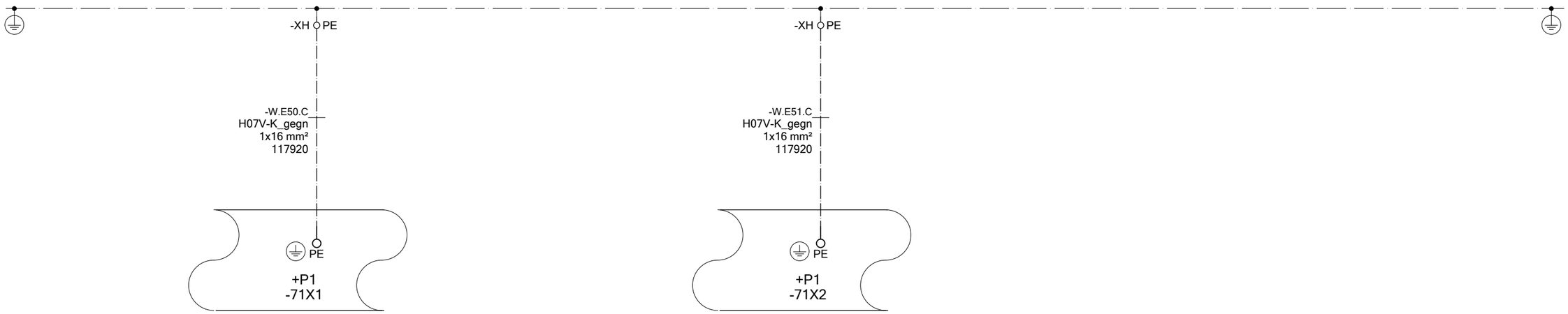

Collegamento equipotenziale Rampa di gas
Equipotential bonding Gas train

Collegamento equipotenziale Rampa di gas: Precamera
Equipotential bonding Gas train: Pre chamber

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Collegamento equipotenziale Valvole di gas Equipotential bonding Gas valves	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 71
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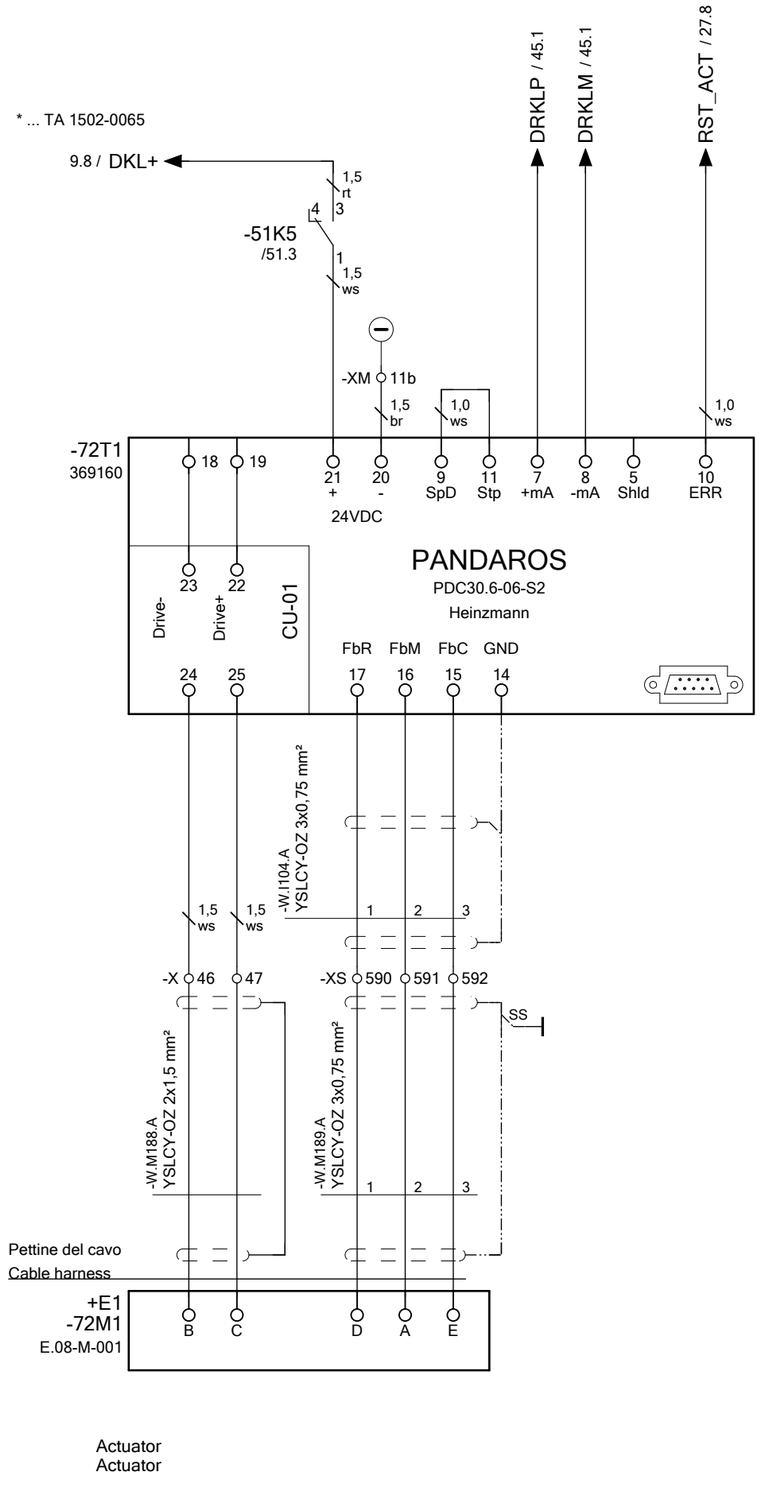

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Valvola a farfalla Throttle valve	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 72
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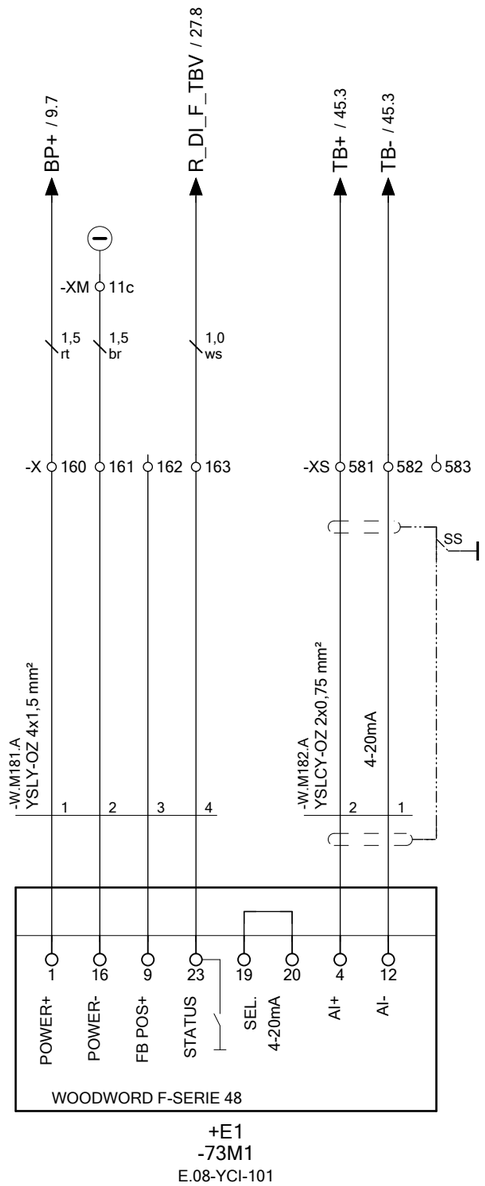

Valvola bypass del turbo 1
Turbo bypass valve 1

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Valvole bypass del turbo Turbo bypass valves	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 73
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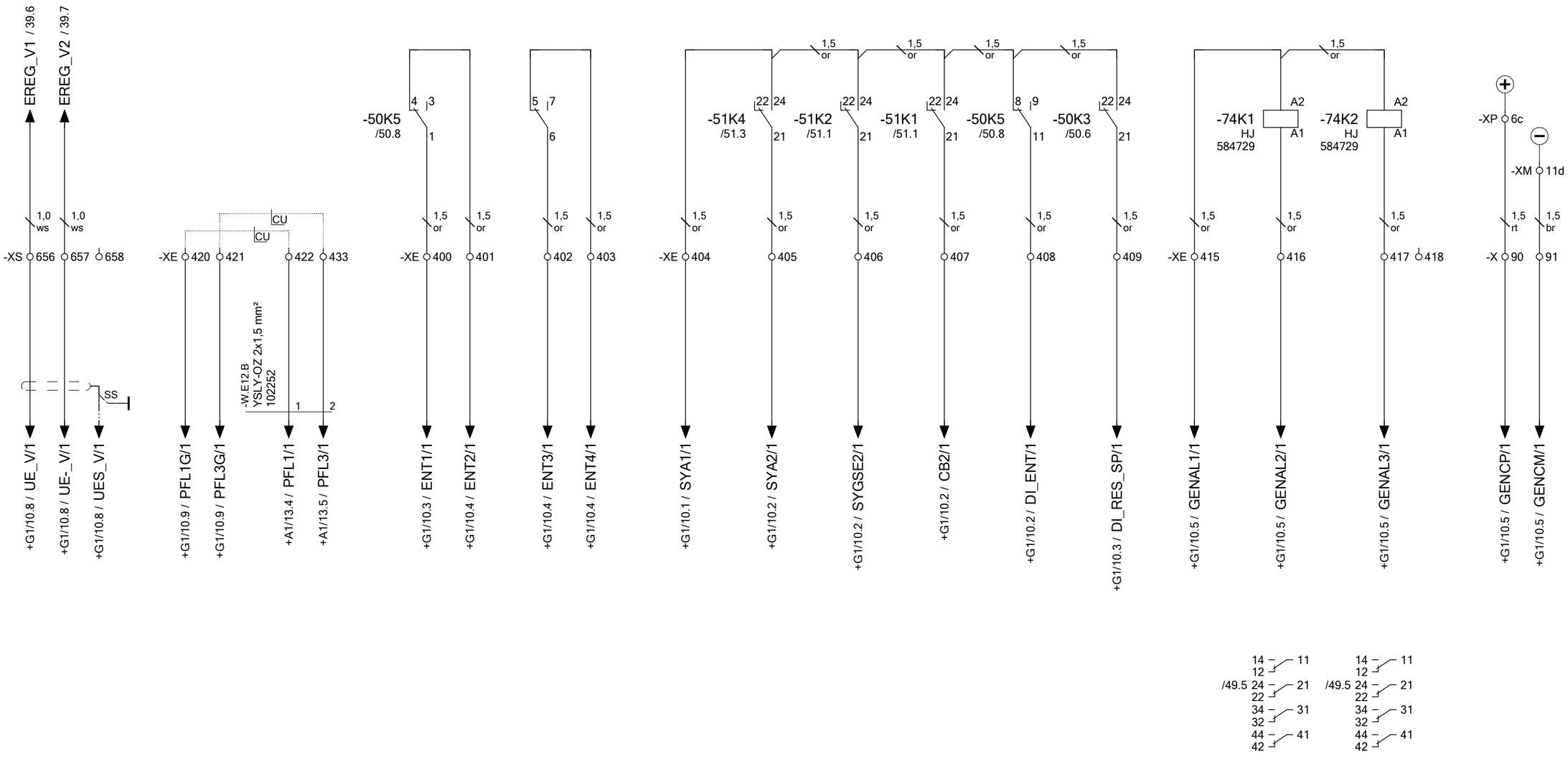

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Segnali Alternatore <--> +M Signals Generator <--> +M	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 74
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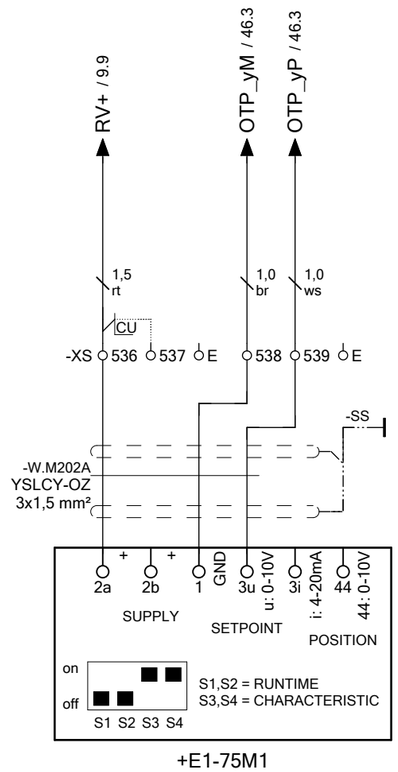

Refrigeratore dell'olio Gradino 2
Oil cooler Step 2

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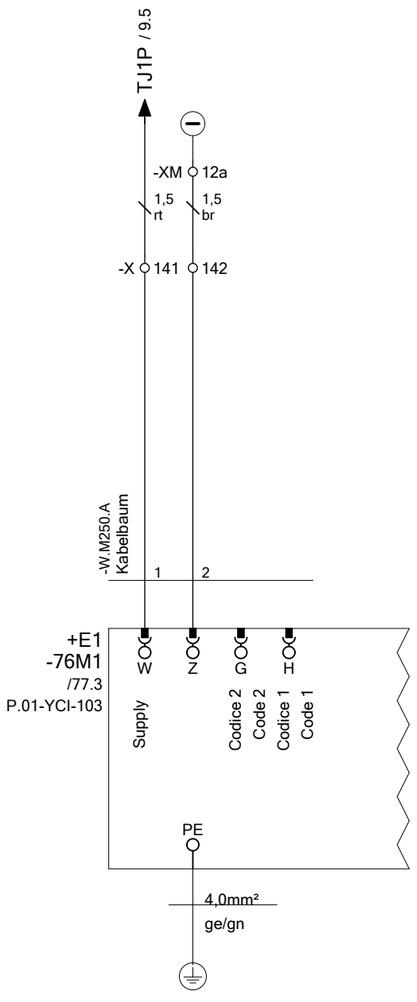
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 75
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW51	ePLAN electric P8 SGMACRO\M1_1186.emp			



"TECJET 1"
"TECJET 1"

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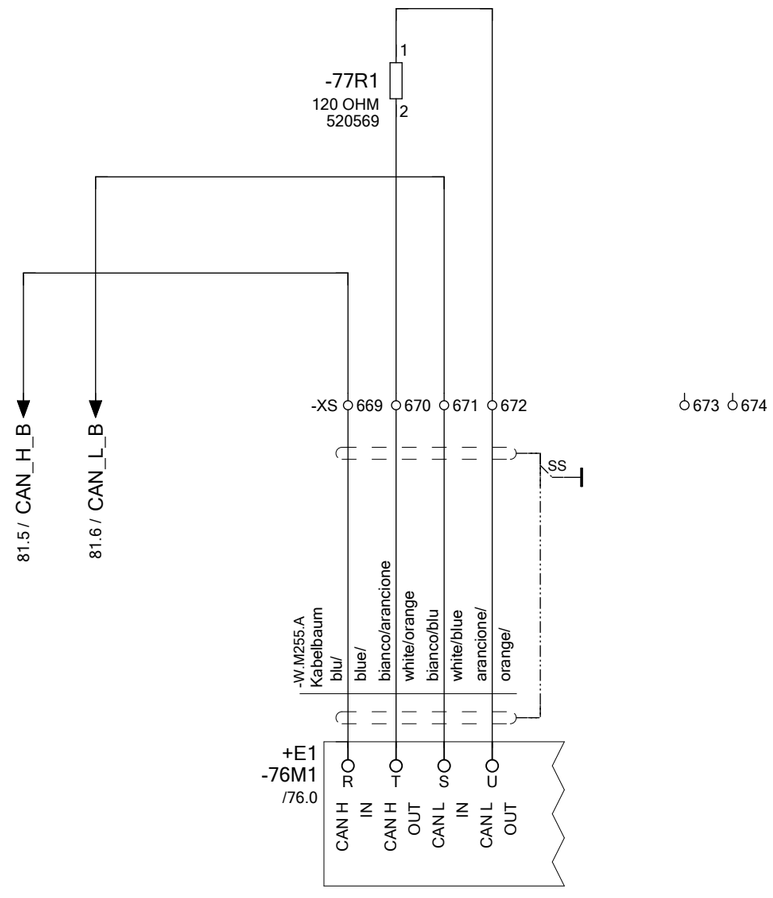
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Miscelatore di gas Tecjet Air-gas mixer Tecjet	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 76
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_1197.emp			



MORIS Banco B
MORIS bank B

TECJET Rampa di gas 1
TECJET Gas train 1

Riserva
Spare

76

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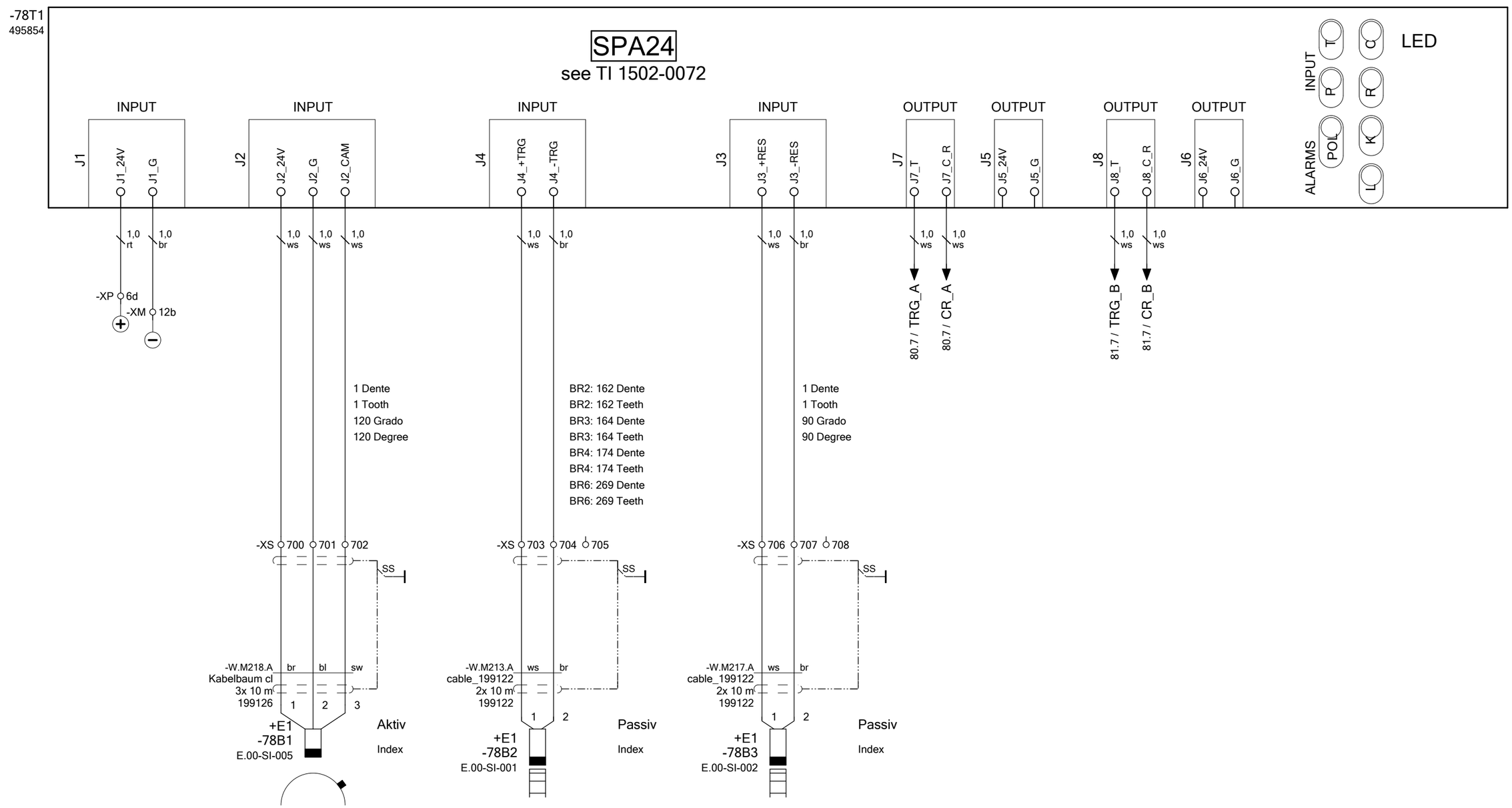
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	CANBUS: Accesione / TECJET CANBUS: Ignition / TECJET	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 77
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_1381.emp			



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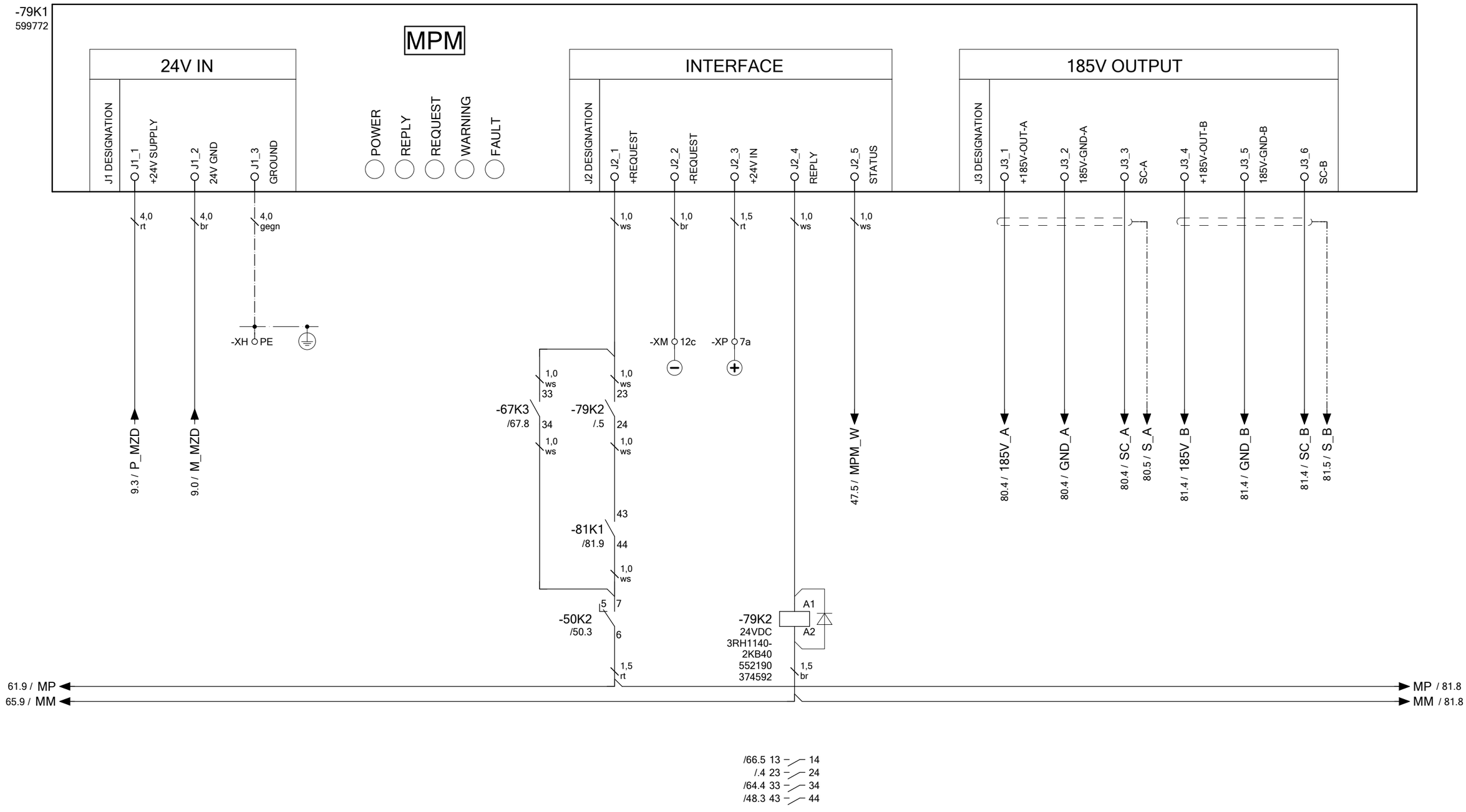
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 78
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_1401.emp			



Alimentazione
Supply

Richiesta Accesione
Demand Ignition

MPM: Sovracarico
MPM: Overload

Alimentazione Sistema di accensione A
Supply Ignition system A

MORIS POWER MODUL (MPM)

MPM OK

Alimentazione Sistema di accensione B
Supply Ignition system B

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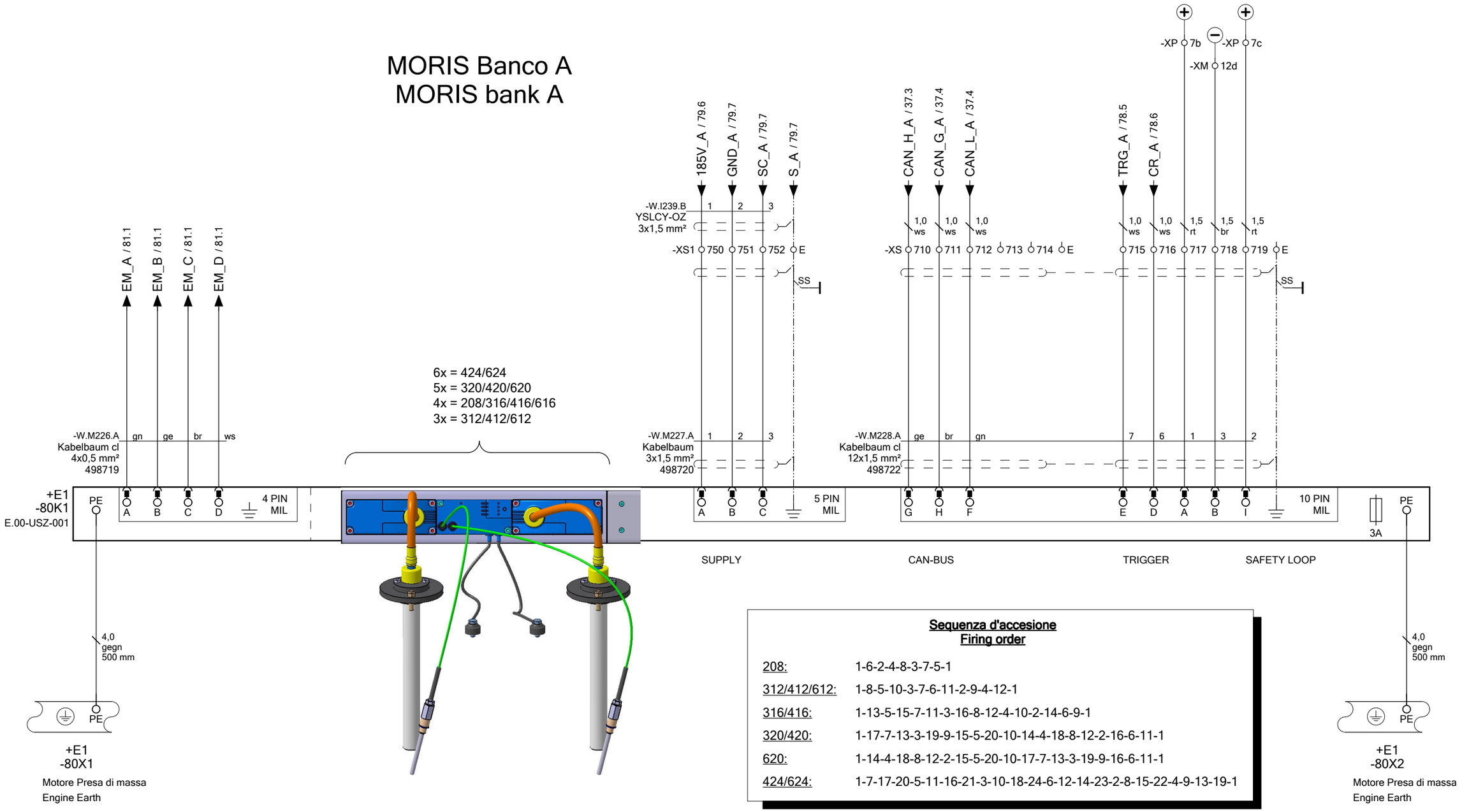
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Accesione MPM 1 Ignition MPM 1	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 79
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\M1_1411.emp			

MORIS Banco A
MORIS bank A



Sequenza d'accesione
Firing order

208:	1-6-2-4-8-3-7-5-1
312/412/612:	1-8-5-10-3-7-6-11-2-9-4-12-1
316/416:	1-13-5-15-7-11-3-16-8-12-4-10-2-14-6-9-1
320/420:	1-17-7-13-3-19-9-15-5-20-10-14-4-18-8-12-2-16-6-11-1
620:	1-14-4-18-8-12-2-15-5-20-10-17-7-13-3-19-9-16-6-11-1
424/624:	1-7-17-20-5-11-16-21-3-10-18-24-6-12-14-23-2-8-15-22-4-9-13-19-1

Collegamento Banco B
Connection bank B

MPM1: Alimentazione
MPM1: Supply

TRIGGER

MORIS Banco A
MORIS bank A

Candelle di accensione / Temperature de cilindro / Sensore di battere
Spark plugs / Cylinder temperature / Knocking detector

Segnali: Accesione
Signals: Ignition

Fusibile
Fuse

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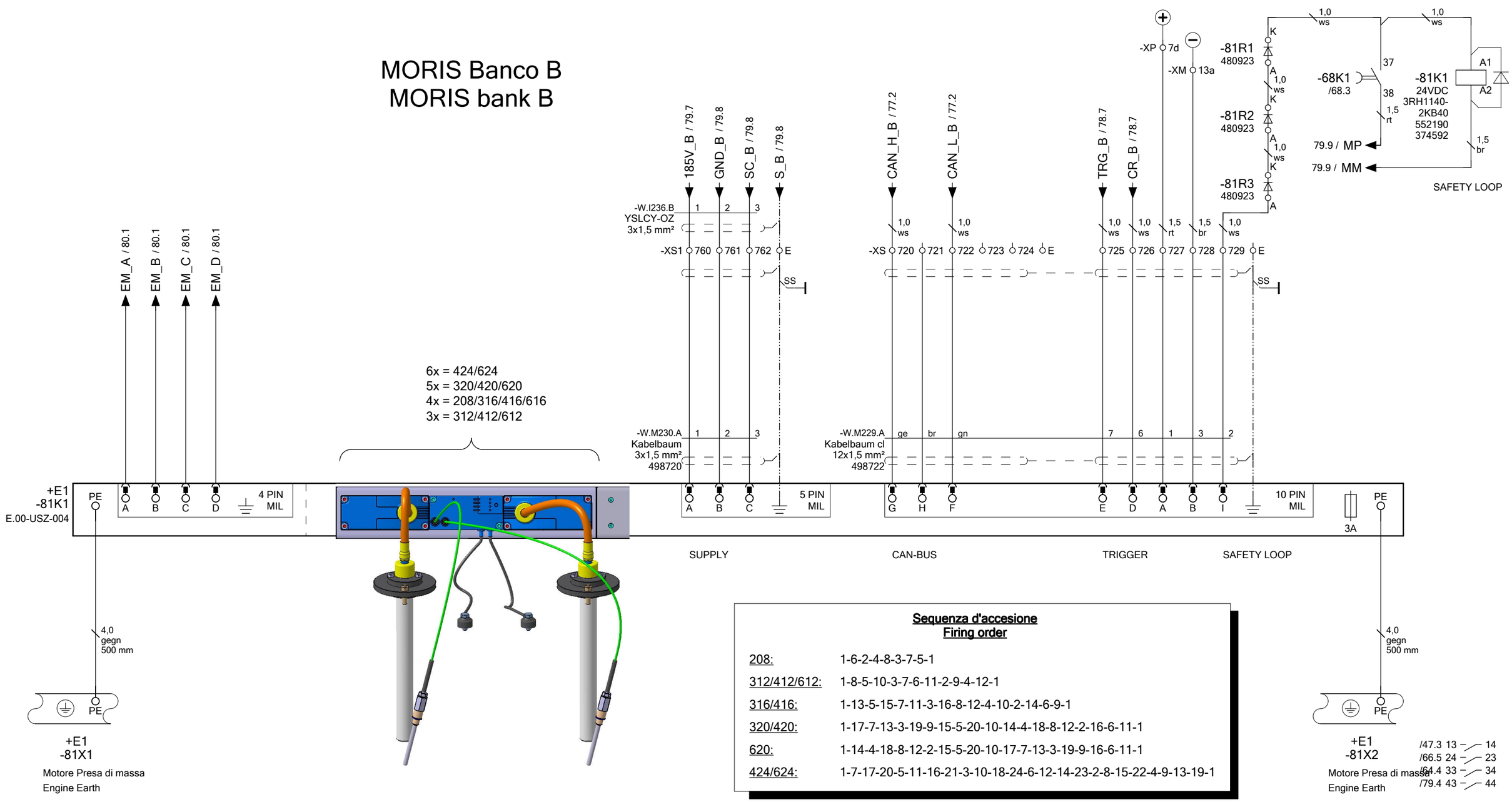
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 80
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_1421.emp			

MORIS Banco B
MORIS bank B



Sequenza d'accesione
Firing order

208:	1-6-2-4-8-3-7-5-1
312/412/612:	1-8-5-10-3-7-6-11-2-9-4-12-1
316/416:	1-13-5-15-7-11-3-16-8-12-4-10-2-14-6-9-1
320/420:	1-17-7-13-3-19-9-15-5-20-10-14-4-18-8-12-2-16-6-11-1
620:	1-14-4-18-8-12-2-15-5-20-10-17-7-13-3-19-9-16-6-11-1
424/624:	1-7-17-20-5-11-16-21-3-10-18-24-6-12-14-23-2-8-15-22-4-9-13-19-1

Collegamento Banco A
Connection bank A

MPM1: Alimentazione
MPM1: Supply

TRIGGER

MORIS Banco B
MORIS bank B

Candelle di accensione / Temperature de cilindro / Sensore di battere
Spark plugs / Cylinder temperature / Knocking detector

Segnali: Accesione
Signals: Ignition

Fusibile
Fuse

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 81
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_1424.emp			

Riserva
Spare

Riserva
Spare

81

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Riserva Spare	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 82
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\M1_2000.emp			

Schema dei collegamenti
Terminal connection diagram

+M1-X

Foglio Page	/70.1	/70.1	/70.2	/70.2	/70.3	/70.3	/70.4	/70.4	/70.5	/70.5	/66.0	/66.4	/66.7	/66.8	/9.1	/9.1	/9.1	/9.1	/21.6	/21.7	/21.7	/72.3	/72.3	/60.1	/60.1	/60.1	/60.1	/60.1
Ponti Jumpers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collegamento Connection	1	2	3	4	5	6	7	8	13	14	20	21	22	23	31	31	33	33	44	44	PE	46	47	50	51	52	53	PE

Cavi Cable	-W.E30.A	-W.E36.A	-W.E37.A	-W.SSL49	+A1-W.E81.A	-W.E1.A	-W.M263.A	-W.M188.A	-W.M138.A
	YSLY-JZ 4x2,5 mm²	YSLY-OZ 2x1,5 mm²	YSLY-OZ 2x1,5 mm²		YSLY-JZ 5x2,5 mm²	YSLY-JZ 5x10 mm²	H07V-K_br 1x35 mm²	YSLCY-OZ 2x1,5 mm²	YSLY-JZ 5x1,5 mm²
Indi cazione Target	+P1 -70M1	+P1 -70M2	+P1 -70M3	+P1 -SSL49	+A1 -X		+M1 -M	+E1 -72M1	+E1 -60B1
P&ID-TAG	P.01-YCZ-103	P.14-YCZ-101	P.14-YCZ-102	P.01-YCZ-110				E.08-M-001	M.03-LI-001
Foglio Page	/70.1	/70.3	/70.4	/70.5	+A1/4.3		/19.5	/72.3	/60.1

Test funzionamento Function text
Valvola di gas 1 Rampa di gas 1 Gas valve 1 Gas train 1
Valvole gas precamera Pre chamber gas valves
Valvola principale del gas Main gas valve
Arresto di emergenza Emergency stop
Arresto di emergenza Tasto Emergency stop Push button
########## Syncronising and load release
24VDC Alimentazione Quadro comando gruppo 24VDC Supply Module control panel
Punto distribuzione Base
Collegamento a terra 24VDC Grounding 24VDC
Actuator Actuator
Livello olio: Motori a gas Oil level: Gas engine

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			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 83
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8			

Schema dei collegamenti
Terminal connection diagram

+M1-X

Foglio / Page	Ponti / Jumpers	Collegamento / Connection
/61.2	-	54
/61.2	-	55
/60.5	-	78
/60.5	-	79
/60.5	-	80
/60.6	-	81
/63.7	-	86
/63.7	-	87
/74.9	-	90
/74.9	-	91
/69.1	-	100
/69.1	-	101
/69.1	-	102
/69.2	-	103
/63.1	-	104
/63.1	-	105
/63.3	-	106
/63.3	-	107
/62.1	-	120
/62.1	-	121
/62.3	-	122
/62.3	-	123
/62.7	-	126
/62.7	-	127
/62.7	-	128
/62.8	-	129
/76.0	-	141

Cavi / Cable	Indi cazione / Target	P&ID-TAG	Foglio / Page	Test funzionamento / Function text
-W.M139.A YSLY-OZ 2x1,5 mm²	+E1 -61M1	M.03-YCS-001	/61.2	Valvola olio / Oil valve
				=
-W.M113.A YSLY-OZ 2x1,5 mm²	+E1 -63B1	M.02-PS-001	/63.7	Riserva / Spare
+G1-W.M350.A YSLY-JZ 7x1,5 mm²	+G1 -X2		+G1/3.4	=
-W.E25.A YSLY-JZ 4x1,5 mm²	+P1 -69K1	P.01-US-101	/69.1	=
-W.E20.A YSLY-OZ 2x1,5 mm²	+P1 -63B1	P.01-PS-101	/63.1	Pressione contra gas di scarico massima / Exhaust gas backpressure max
-W.E21.A YSLY-OZ 2x1,5 mm²	+P1 -63B2	P.01-PS-103	/63.3	=
-W.M107.A YSLY-OZ 2x1,5 mm²	+E1 -62B1	M.07-TS-001	/62.1	=
-W.M183.A YSLY-OZ 2x1,5 mm² 4,5 m	+E1 -62B2	M.04-FS-001	/62.3	=
-W.M178.A YSLY-OZ 4x0,34 mm²	+E1 -62B3	E.08-LI-001	/62.7	24VDC: Regolatore generatore / 24VDC: Generator controller
-W.M250.A Kabelbaum	+E1 -76M1	P.01-YCI-103	/76.0	=
				Controllo di tenuta gas 1 / Gassafety device 1
				=
				=
				=
				Pressione gas min Rampa di gas 1 / Gas pressure min Gas train 1
				=
				Pressione gas massima Rampa di gas 1 / Gas pressure max Gas train 1
				=
				Temperatura massima: Acqua raffreddamento carica 2 / Temperature max: Charge cooling water 2
				=
				########### / Flow Preheating OK
				=
				Sensori: Penetrazione acqua / Sensor: Water seep into
				=
				=
				=
				"TECJET 1" / "TECJET 1"

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +M1-X Terminal connection diagram +M1-X	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 84
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8			

Schema dei collegamenti
Terminal connection diagram

+M1-X

Foglio / Page	Ponti / Jumpers	Collegamento / Connection
/76.1	-	142
/73.0	-	160
/73.0	-	161
/73.1	-	162
/73.1	-	163
/20.1	-	190
/20.1	-	191
/20.1	-	192
/20.1	-	193
/20.2	-	194
/20.2	-	195
/20.2	-	196
/20.3	-	197
/21.1	-	198
/21.1	-	199
/17.1	-	218
/17.1	-	219
/17.1	-	220
/17.1	-	221
/17.2	-	222
/17.3	-	223
/17.7	-	224
/17.7	-	225

Cavi / Cable	Indi cazione / Target	P&ID-TAG	Foglio / Page	Test funzionamento / Function text
-W.M250.A Kabelbaum (2)	+E1 -76M1 (Z)	P.01-YCI-103	/76.0	"TECJET 1" "TECJET 1"
-W.M181.A YSLY-OZ 4x1,5 mm² (1 2 3 4)	+E1 -73M1 (1 16 9 23) (1)	E.08-YCI-101	/73.0	Valvola bypass del turbo 1 Turbo bypass valve 1
				= = =
+V1-W.M259.A H07V-K_ws 1x1,5 mm²	+V1 -X (192 194 195) (192)		+V1/4.3	Comando: Motorino d'avviamento Command: Starter motor
-W.M265.A YSLY-OZ 4x1,5 mm² (1 2)				Comando: Pompa olio DC Command: Oil pump DC
				= = =
-W.M133.A YSLY-JZ 7x1,5 mm² (1 2 3 4 5 6)	+E1 -17M1 (3 4 1 7 B E) (3)	M.02-YCS-001	/17.0	Riserva Spare
				=
				Serranda di lavaggio Scavenging flap
				= = = = =
-W.M127.A YSLY-OZ 2x1,5 mm² (1 2)	+E1 -17B1 (1 2)	M.02-TS-001	/17.7	Temperatura Serranda di lavaggio Temperature Scavenging flap
				=

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +M1-X Terminal connection diagram +M1-X	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 85
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8			

Schema dei collegamenti
Terminal connection diagram

+M1-XE

Foglio Page	/74.3	/74.3	/74.3	/74.4		/74.4	/74.5	/74.5	/74.6	/74.6	/74.6	/74.7	/74.7	/74.8	/74.8	/74.1	/74.2		/74.2	/74.2
Ponti Jumpers	-	-	-	-		-	-	-	-	-	-	-	-	-	-					-
Collegamento Connection	400	401	402	403		404	405	406	407	408	409	415	416	417	418	420	421		422	433

Cavi
Cable

	1	2	3	4		1	2	3	4	5	6	3	4	5		1	2		1	2
	+G1-W.M199.B YSLY-OZ 4x1,5 mm²					+G1-W.M310.A YSLY-JZ 7x1,5 mm²						+G1-W.M350.A YSLY-JZ 7x1,5 mm²				+G1-W.M400.B YSLY-OZ 2x1,5 mm²			-W.E12.B YSLY-OZ 2x1,5 mm²	

Indi cazione
Target

	1	2	3	4		1	2	3	4	5	6	3	4	5		1	2		1	2
	16	16	14	14		V4	D5	D6	D7	D8	D10	V1	D1	D2		4	3		791	792
	+G1 -X2 16					+G1 -10K1 V4										+G1 -X2 4			+A1 -XE 791	
P&ID-TAG																				
Foglio **Page**	+G1/3.4					+G1/10.0										+G1/3.4			+A1/4.3	

Test funzionamento
Function text

Diseccitazione deexcitation	"	"	"		Scelta sincr. Selection SY	"	Interruttore alternatore chiuso Generator circuit breaker closed	Cosφ - Regolatore: on Cosφ - Controller: on	Diseccitazione deexcitation	Reset Valore nominale Reset Set point	Disturbo: Regolatore generatore Failure: Generator controller	"	Diodo Allarme Diode Alarm	"	Equilibro di tensione Voltage matching	"	"	"

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +M1-XE Terminal connection diagram +M1-XE	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ M1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 86
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Schema dei collegamenti
Terminal connection diagram

+M1-XH

Foglio / Page	/12.3	/12.3	/12.3	/12.3	/16.3	/16.3	/16.3	/15.4	/15.4	/15.4	/15.4	/15.4	/15.7	/15.7	/15.7	/15.7	/15.8	/11.3	/11.3	/11.3	/11.3	/16.8	/16.9	/16.9	/13.3	/13.3	/13.3	/13.3
Ponti / Jumpers	-	-	-		-	-		-	-	-	-		-	-	-	-		-	-	-		-	-		-	-	-	
Collegamento / Connection	900	901	902	PE	906	N2	PE	907	908	909	N3	PE	910	911	912	N4	PE	913	914	915	PE	924	N7	PE	936	937	938	PE
Cavi / Cable	-W.M106.C YSLY-JZ 4x1,5 mm²				-W.M101.B YSLY-JZ 3x1,5 mm²			-W.M103.C YSLY-JZ 5x2,5 mm²					-W.M104.C YSLY-JZ 5x2,5 mm²					-W.M105.C YSLY-JZ 4x4 mm²				+G1-W.M200.B YSLY-JZ 3x1,5 mm²			-W.M123.C YSLY-JZ 4x1,5 mm²		
Indi cazione / Target	U1 V1 W1 PE				L N PE			U V W N PE					U V W N PE					U1 V1 W1 PE				H1 H3 PE			W1 V1 U1 PE			
	+E1 -12M1				+E1 -16M1			+E1 -15E1					+E1 -15E2					+E1 -11M1				+G1 -X3			+E1 -13M1			
P&ID-TAG	M.03-M-002				M.04-M-002			M.04-TS-001 [01] M.04-W-002					M.04-TS-001 [02] M.04-W-002					M.04-M-001							M.02-M-001			
Foglio / Page	/12.3				/16.3			/15.4					/15.7					/11.3				+G1/3.4			/13.3			
Test funzionamento / Function text	Pompa olio AC Oil pump AC				Pompa preriscaldamento Preheating pump			Resistenza di riscaldamento Heating elements										Pompa di Acqua di raffreddamento motore 1 Engine jacket water pump 1				Alimentazione Scaldiglie anticondensa Supply Anti condensation heater			Ventilatore di lavaggio Scavenging fan			

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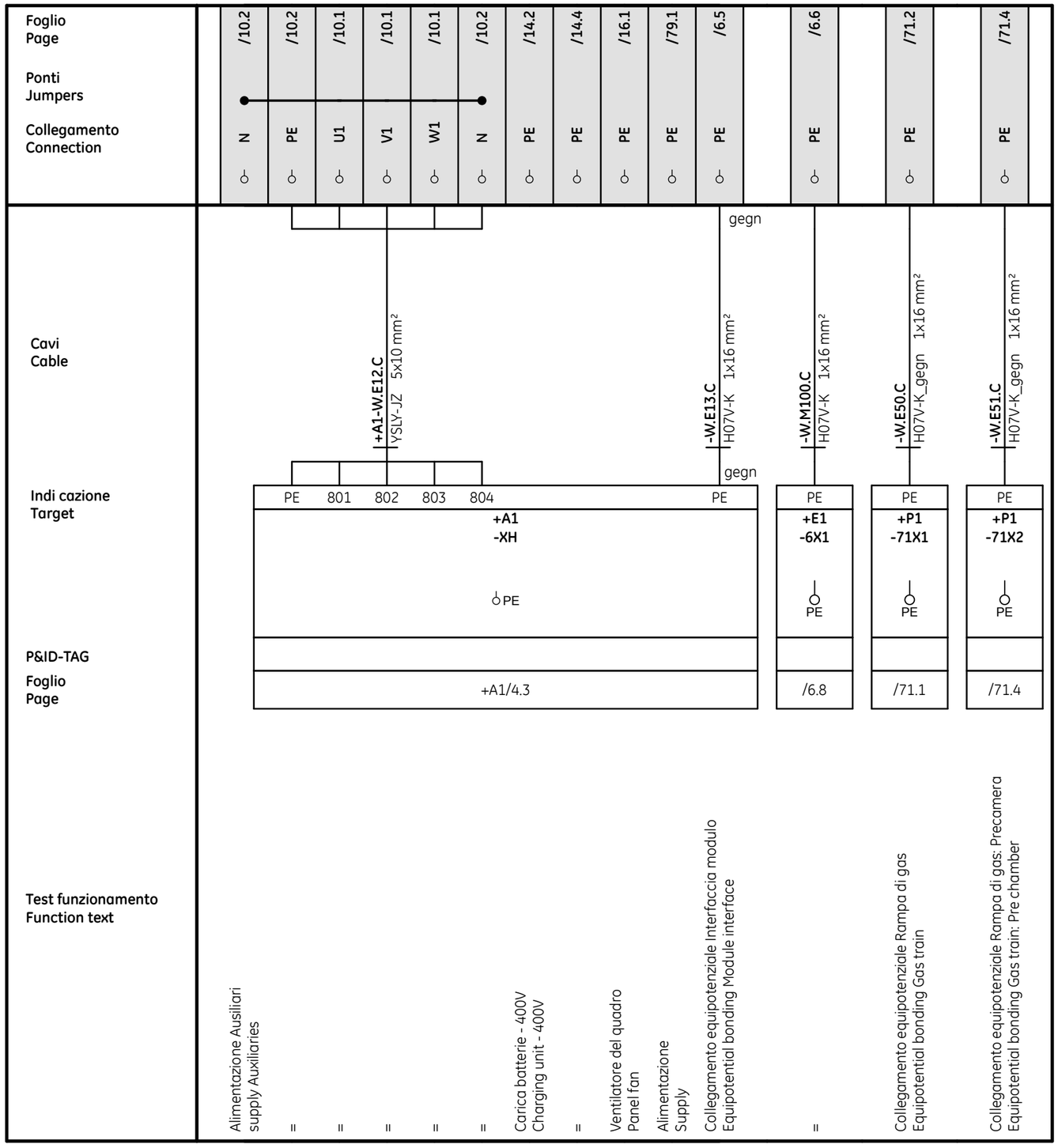
Schema dei collegamenti
Terminal connection diagram

+M1-XH



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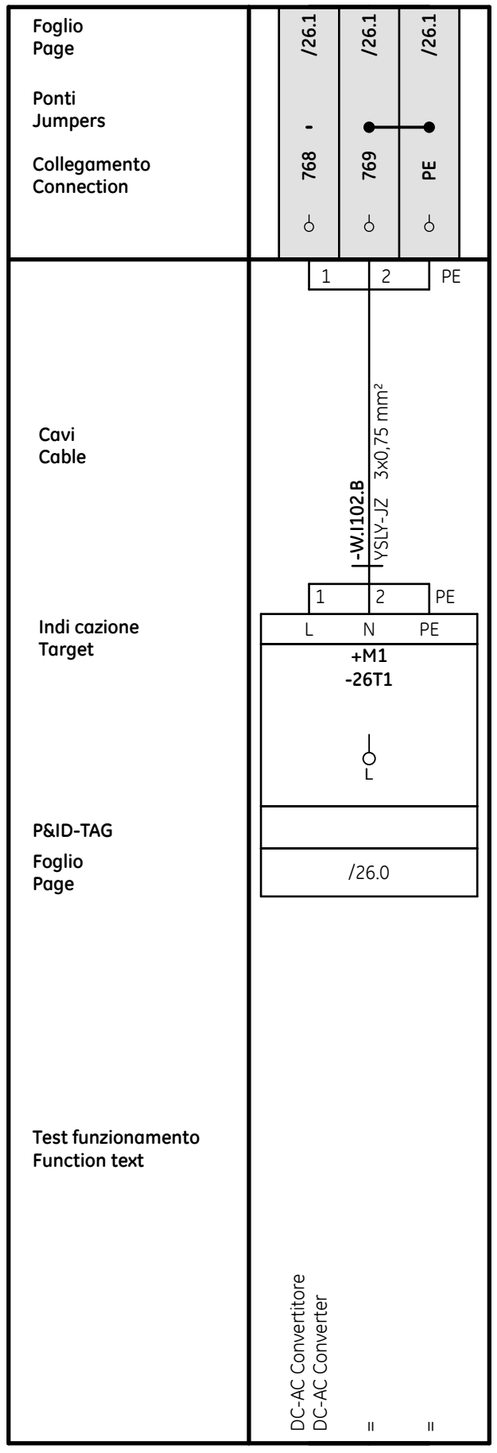
Schema dei collegamenti
Terminal connection diagram

+M1-XHT



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Schema dei collegamenti
Terminal connection diagram

+M1-XS

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Ponti Jumpers																										
Collegamento Connection	500	501	E	502	503	E	504	505	E	519	520	E	522	523	E	525	526	E	528	529	E	534	535	E	536	537
Cavi Cable	-W.M121.A YSLCY-OZ 3x0,75 mm²			-W.M122.A YSLCY-OZ 3x0,75 mm²			-W.M117.A YSLCY-OZ 3x1,5 mm²			-W.M300.A YSLCY-OZ 3x0,75 mm²			-W.M302.A YSLCY-OZ 3x1,5 mm²			-W.M194.A YSLCY-OZ 3x1,5 mm²			-W.M301.A YSLCY-OZ 3x0,75 mm²			-W.M303.A YSLCY-OZ 3x0,75 mm²			-W.M202A YSLCY-OZ 3x1,5 mm²	
Indi cazione Target	+E1 -53B1			+E1 -53B2			+E1 -53B3			+E1 -54B1			+E1 -54B2			+E1 -54B3			+E1 -55B1			+E1 -55B2			2a +E1 -75M1	
P&ID-TAG	M.03-PI-001			M.04-PI-001			E.08-PI-001			E.00-PI-025			E.08-PI-002			E.14-PI-001			P.14-PI-102			M.03-PI-002			M.07-YTC-001	
Foglio Page	/53.1			/53.3			/53.6			/54.1			/54.3			/54.6			/55.1			/55.3			/75.2	
Test funzionamento Function text	Pressione olio Oil pressure			Press. acqua di raffreddamento Jacket water pressure			Pressione di alimentazione Supercharge pressure			Pressione basamento Crankcase pressure			Pressione di alimentazione P2 Supercharge pressure P2			Precamera: Pressione gas Pre chamber: Gas pressure			Precamera Rampa di gas: Pressione gas Pre chamber Gas train: Gas pressure			Pressione diff filtro olio Oil differential pressure			Refrigeratore dell'olio Gradino 2 Oil cooler Step 2	

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Schema dei collegamenti
Terminal connection diagram

+M1-XS

Foglio / Page	/75.3	/75.3	/75.3	/75.4	/56.1	/56.1	/56.1	/56.3	/56.4	/56.4	/56.6	/56.7	/56.7	/57.1	/57.1	/57.1	/57.3	/57.4	/57.4	/73.1	/73.2	/73.2	/72.4	/72.4	/72.4	/58.1	/58.1	/58.1
Ponti / Jumpers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collegamento / Connection	E	538	539	E	540	541	542	543	544	545	546	547	548	549	550	551	578	579	580	581	582	583	590	591	592	630	631	632

Cavi / Cable	-W.M202A YSLCY-OZ 3x1,5 mm²	-W.M118.A PT100 3x0,25 mm²	-W.M119.A YSLCY-OZ 3x0,75 mm²	-W.M120.A YSLCY-OZ 3x0,75 mm²	-W.M193.A YSLCY-OZ 3x0,75 mm²	-W.M16.A YSLCY-OZ 3x0,75 mm²	-W.M182.A YSLCY-OZ 2x0,75 mm²	-W.M189.A YSLCY-OZ 3x0,75 mm²	+G1-W.M190.A YSLCY-JZ 18x1,5 mm²
Indi cazione / Target	1 3u	ws rt1 rt2 / 3 2 1	1 2 3	1 2 3	1 2 3	1 2 3	2 1	1 2 3	3 2 1
	+E1 -75M1	+E1 -56B1	+E1 -56B2	+E1 -56B3	+E1 -57B1	+E1 -57B2	+E1 -73M1	+E1 -72M1	+G1 -X3
	1	1 2 3	3 2 1	3 2 1	3 2 1	3 2 1	4	D	39
P&ID-TAG	M.07-YTC-001	E.08-TI-001	M.03-TI-001	M.04-TI-001	M.05-TI-001	M.06-TI-001	E.08-YCI-101	E.08-M-001	
Foglio / Page	/75.2	/56.1	/56.3	/56.6	/57.1	/57.3	/73.0	/72.3	+G1/3.4
Test funzionamento / Function text	Refrigeratore dell'olio Gradino 2 Oil cooler Step 2	Temperatura di carica Charge temperature	Temperatura di olio Oil temperature	Temp. acqua di raffreddamento Engine jacket water temperature	Temperatura aria di aspirazione Intake air temperature	Motori a gas: Acqua di ritorno Temperatura Gas engine: Water return Temperature	Valvola bypass del turbo 1 Turbo bypass valve 1	Actuator Actuator	Temperatura avvolgimenti Fase U Windings temperature Phase U

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Schema dei collegamenti
Terminal connection diagram

+M1-XS

Foglio Page	/58.3	/58.4	/58.4	/58.6	/58.7	/58.7	/59.1	/59.1	/59.1	/59.3	/59.4	/59.4	/74.0	/74.1	/74.1	/77.3	/77.3	/77.4	/77.4	/77.5	/77.5	/45.5	/45.5	/45.5	/45.7	/45.7	/45.7	/78.2	/78.2	/78.2	/78.3	/78.3
Ponti Jumpers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collegamento Connection	633	634	635	636	637	638	639	640	641	642	643	644	656	657	658	669	670	671	672	673	674	685	686	687	688	689	690	700	701	702	703	704

Cavi Cable	6 5 4 9 8 7 12 11 10 15 14 13					+G1-W.M190.A YSLCY-JZ 18x1,5 mm²							1 2									1 2			1 2			br bl sw			ws br	
Indi cazione Target	6 5 4 9 8 7 12 11 10 15 14 13												1 2									1 2			1 2			br bl sw			ws br	
	42 41 40 45 44 43 60 59 58 57 56 55												AO1 BO1			R T S U						AI1 BI1 AI2 BI2						1 2 3			1 2	
	+G1 -X3												+G1 -10K1			+E1 -76M1						+G1 -10K1						+E1 -78B1			+E1 -78B2	
	42												AO1			R						AI1										
P&ID-TAG																P.01-YCI-103												E.00-SI-005			E.00-SI-001	
Foglio Page	+G1/3.4												+G1/10.0			/76.0						+G1/10.0						/78.2			/78.3	
Test funzionamento Function text	Temperatura avvolgimenti Fase V Windings temperature Phase V	"	"	Temperatura avvolgimenti Fase W Windings temperature Phase W	"	"	Temperatura di cuscinetto DE Bearing temperature DE	"	"	Temperatura di cuscinetto NDE Bearing temperature NDE	"	"	Tensione di eccitazione Alternatore Excitation voltage Generator	"	"	TECJET Rampa di gas 1 TECJET Gas train 1	"	"	"	Riserva Spare	"	Cosφ Segnale Cosφ Signal	"	"	Valore attuale Motore Temperatura aria di aspirazione 0-10V = 0-100°C Actual value Engine Intake air temperature 0-10V = 0-100°C	"	"	Albero a camme Camshaft	"	"	Albero gomiti (Giri) Trigger Crankshaft (Speed) Trigger	"

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Schema dei collegamenti
Terminal connection diagram

+M1-XS

Foglio Page	/78.3	/78.4	/78.5	/78.5	/80.5	/80.6	/80.6	/80.6	/80.6	/80.6	/80.7	/80.7	/80.7	/80.7	/80.7	/80.8	/81.5	/81.6	/81.6	/81.6	/81.6	/81.6	/81.7	/81.7	/81.7	/81.7	/81.7	/81.8	/6.3	/6.4
Ponti Jumpers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collegamento Connection	705	706	707	708	710	711	712	713	714	E	715	716	717	718	719	E	720	721	722	723	724	E	725	726	727	728	729	E	E	E

Cavi / Cable

Cavo	Colori	Lunghezza	Da	A
-W.M217.A cable_199122	ws, br	2x 10 m		+E1 -78B3
-W.M228.A Kabelbaum cl	ge, br, gn, 7, 6, 1, 3, 2	12x1,5 mm²		+E1 -80K1
-W.M229.A Kabelbaum cl	ge, br, gn, 7, 6, 1, 3, 2	12x1,5 mm²		+E1 -81K1
	tr, tr			+M1 -GND

Indi cazione / Target

+E1 -78B3	+E1 -80K1	+E1 -81K1	+M1 -GND
1 2	X3:G X3:H X3:F X3:E X3:D X3:A X3:B X3:I	X3:G X3:H X3:F X3:E X3:D X3:A X3:B X3:I	
	G	G	
P&ID-TAG E.00-SI-002	E.00-USZ-001	E.00-USZ-004	
Foglio / Page /78.5	/80.0	/81.0	/6.1

Test funzionamento / Function text

Albero gomiti (Giri) Trigger Crankshaft (Speed) Trigger	Albero gomiti (Giri) Reset Crankshaft (Speed) Reset	=	=	Segnali: Accesione Signals: Ignition	=	=	=	=	=	TRIGGER	=	=	=	=	=	Segnali: Accesione Signals: Ignition	=	=	=	=	=	TRIGGER	=	=	=	=	=	Sbarra di schermo 1 Shield bar 1	Sbarra di schermo 2 Shield bar 2

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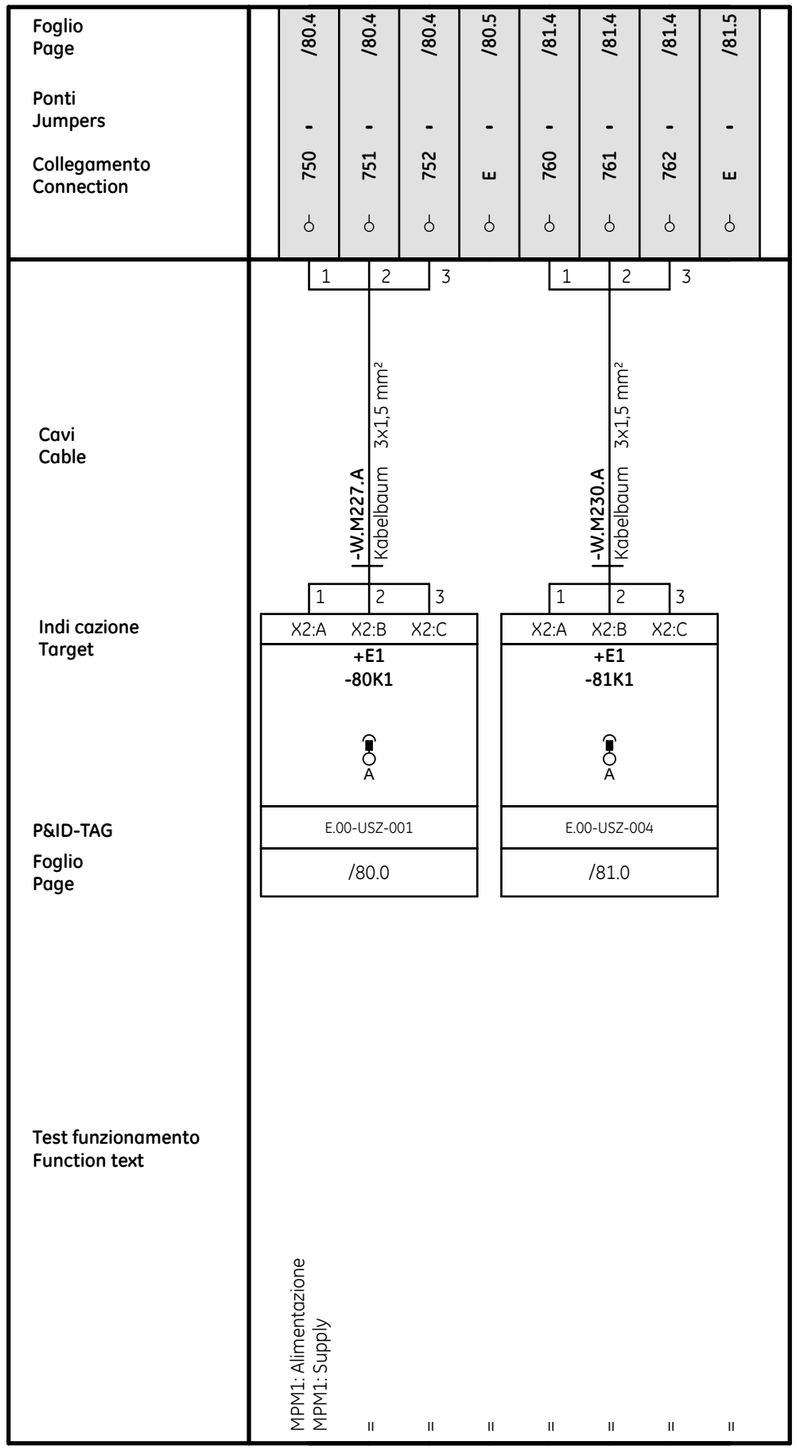
Schema dei collegamenti
Terminal connection diagram

+M1-XS1



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Schema allacciamento apparecchiature
Device connection diagram

+M1-53F1
110630 — F0,2A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-XP:3a	1,5 mm²	rt
	2	-XS:500	1,5 mm²	rt

+M1-9F4
117785 — D01 gG 6A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	1	-XP:1a	4,0 mm²	rt
	2	-9F3:1	4,0 mm²	rt

+M1-9F10
117785 — D01 gG 6A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	1	-XS:536	1,5 mm²	rt
	2	-9F9:1	1,5 mm²	rt

+M1-9F2
117788 — D01 gG 10A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	1	-X:33	4,0 mm²	rt
	2	-9F1:1	4,0 mm²	rt

+M1-51F1
300288 — T0,63A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-35K2:26	1,0 mm²	ws
	2	-67K1:37	1,0 mm²	ws

+M1-13Q2
374544 — In=1,45A 1,1...1,6A

Symbol	Pin	Indi cazione Target		
	1	-12Q2:1	6,0 mm²	sw
	2	-13Q1:1	1,5 mm²	sw
	3	-12Q2:3	6,0 mm²	sw
	4	-13Q1:3	1,5 mm²	sw
	5	-12Q2:5	6,0 mm²	sw
	6	-13Q1:5	1,5 mm²	sw

+M1-12Q2
374553 — In=3,6A 2,8...4A

Symbol	Pin	Indi cazione Target		
	1	-13Q2:1	6,0 mm²	sw
	2	-12Q1:1	1,5 mm²	sw
	3	-13Q2:3	6,0 mm²	sw
	4	-12Q1:5	1,5 mm²	sw
	5	-13Q2:5	6,0 mm²	sw
	6	-12Q1:5	1,5 mm²	sw
	13	-16K1:3	1,5 mm²	rt
	14	-34K3:13	1,0 mm²	ws
	21			
	22			

+M1-11Q2
374558 — In=11A 9...12A

Symbol	Pin	Indi cazione Target		
	1	-12Q2:1	6,0 mm²	sw
	2	-11Q1:1	2,5 mm²	sw
	3	-12Q2:3	6,0 mm²	sw
	4	-11Q1:3	2,5 mm²	sw
	5	-12Q2:5	6,0 mm²	sw
	6	-11Q1:5	2,5 mm²	sw

+M1-70F1
401055 — T6,3A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-64K1:30	1,5 mm²	ws
	2	-67K2:13	1,5 mm²	ws

+M1-70F2
401055 — T6,3A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-70F1:1		CU
	2	-67K2:23	1,5 mm²	ws

+M1-70F3
401055 — T6,3A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-51K6:30	1,5 mm²	ws
	2	-67K2:33	1,5 mm²	ws

+M1-70F4
401055 — T6,3A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-65K1:30	1,5 mm²	ws
	2	-67K3:43	1,5 mm²	ws

+M1-9F6
454941 — C-6A

Symbol	Pin	Indi cazione Target		
	1	-X:141	1,5 mm²	rt
	2	-9F5:2		CU

+M1-16F1
454941 — C-6A

Symbol	Pin	Indi cazione Target		
	1	-15F1:1	6,0 mm²	sw
	2	-16B1:5	1,5 mm²	sw

+M1-9F1
454942 — C-13A

Symbol	Pin	Indi cazione Target		
	1	-9F2:2	4,0 mm²	rt
	2	-23X5:1	10 mm²	rt

+M1-9F3
454942 — C-13A

Symbol	Pin	Indi cazione Target		
	1	-9F4:2	4,0 mm²	rt
	2	-9F1:2		CU

+M1-9F7
454942 — C-13A

Symbol	Pin	Indi cazione Target		
	1	-69K1:87	1,5 mm²	rt
	2	-9F6:2		CU
	13	-9F8:13	1,0 mm²	ws
	14	-21F1:11	1,0 mm²	ws
	21			
	22			

+M1-9F8
454942 — C-13A

Symbol	Pin	Indi cazione Target		
	1	-51K5:3	1,5 mm²	rt
	2	-9F7:2	10 mm²	rt
	13	-9F7:13	1,0 mm²	ws
	14	-16F2:14	1,0 mm²	ws
	21			
	22			

+M1-9F9
454942 — C-13A

Symbol	Pin	Indi cazione Target		
	1	-9F10:2	1,5 mm²	rt
	2	-9F8:2	10 mm²	rt

+M1-16F2
454942 — C-13A

Symbol	Pin	Indi cazione Target		
	1	-15F1:3	6,0 mm²	sw
	2	-16Q2:1	1,5 mm²	sw
	13	-27R11:2	1,0 mm²	ws
	14	-9F8:14	1,0 mm²	ws
	21			
	22			

+M1-9F5
454944 — C-20A

Symbol	Pin	Indi cazione Target		
	1	-79K1:J1_1	4,0 mm²	rt
	2	-9F3:2		CU

+M1-26F1
454944 — C-20A

Symbol	Pin	Indi cazione Target		
	1	-26T1:+	10 mm²	rt
	2	-23X6:2	10 mm²	rt

+M1-24F1
454946 — C-32A

Symbol	Pin	Indi cazione Target		
	1	-24C2:+	10 mm²	rt
	2	-23X6:1	10 mm²	rt
	13	-24B1:A1	1,0 mm²	ws
	14	-XP:1d	1,5 mm²	rt
	21			
	22			

+M1-15F1
454951 — C-20A

Symbol	Pin	Indi cazione Target		
	1	-16F1:1	6,0 mm²	sw
	2	-15Q1:1	4,0 mm²	sw
	3	-16F2:1	6,0 mm²	sw
	4	-15Q1:3	4,0 mm²	sw
	5	-14F1:5	6,0 mm²	sw
	6	-15Q1:5	4,0 mm²	sw

+M1-66F1
478341 — T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-XP:5b	1,5 mm²	rt
	2	-66S1:2	1,5 mm²	rt

+M1-60F1
529885 — T0,5A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-XP:3c	1,5 mm²	rt
	2	-X:78	1,5 mm²	rt

+M1-62F1
529885 — T0,5A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-XP:4b	1,5 mm²	rt
	2	-X:126	1,5 mm²	rt

+M1-21F1
1202783 — C-100A

Symbol	Pin	Indi cazione Target		
	1	-21Q1:3	25 mm²	rt
	2	-P	35 mm²	
	11	-9F7:14	1,0 mm²	ws
	14	-XP:2d	1,5 mm²	rt

+M1-14F1
1227592 — B-16A

Symbol	Pin	Indi cazione Target		
	1	-13Q2:1	6,0 mm²	sw
	2	-14T1:L1	2,5 mm²	sw
	3	-13Q2:3	6,0 mm²	sw
	4	-14T1:L2	2,5 mm²	sw
	5	-13Q2:5	6,0 mm²	sw
	6	-14T1:L3	2,5 mm²	sw

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema allacciamento apparecchiature
			Desig.	Streiter Daniela			Device connection diagram
			Print	11.03.2015	CPL JMS 612 F02 Politecnico		
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric8	

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Device connection diagram

+M1-16K1
116699 MT

Symbol	Pin	Indi cazione Target		
	2	-16F1:2	1,5 mm²	sw
	10	-16K2:7	1,5 mm²	hbl
	4			
	1	-34K2:15	1,0 mm²	ws
	3	-79K2:43	1,5 mm²	rt
	5			
	6			
	7			
	8			
	11			
	9			

+M1-16K2
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-16K3:11	1,0 mm²	ws
	10	-16Q1:A2	1,5 mm²	br
	4			
	1	-16Q1:1	1,5 mm²	or
	3	-16K1:2	1,5 mm²	sw
	5			
	6	-XH:N2	1,5 mm²	hbl
	7	-10XN1:2	1,5 mm²	hbl
	8	-35K3:15	1,0 mm²	ws
	11	-16K3:2	1,0 mm²	ws
	9			

+M1-16K3
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-16K2:11	1,0 mm²	ws
	10	-16Q2:A2	1,5 mm²	br
	4			
	1	-16K2:1	1,5 mm²	or
	3	-XHT:768	1,5 mm²	or
	5			
	6	-16K2:6	1,5 mm²	hbl

Symbol	Pin	Indi cazione Target		
	7	-XHT:769	1,5 mm²	hbl
	8	-35K3:24	1,0 mm²	ws
	11	-16K2:2	1,0 mm²	ws
	9			

+M1-20K2
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-20K2:3	1,0 mm²	ws
	10	-16K3:10	1,5 mm²	br
	4			
	1	-20K1:86	1,0 mm²	ws
	3	-51K3:22	1,0 mm²	ws
	5			
	6	-68K1:S11	1,0 mm²	ws
	7	-64K2:31	1,0 mm²	ws
	8			
	11			
	9			

+M1-50K2
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-35K1:13	1,0 mm²	ws
	10	-50K1:A1	1,5 mm²	br
	4			
	1			
	3			
	5			
	6	-61K1:24	1,5 mm²	rt
	7	-81K1:44	1,0 mm²	ws
	8			
	11			
	9			

+M1-50K5
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-35K1:16	1,0 mm²	ws
	10	-50K4:A1	1,5 mm²	br

Symbol	Pin	Indi cazione Target		
	4	-XE:401	1,5 mm²	or
	1	-XE:400	1,5 mm²	or
	3			
	5	-XE:403	1,5 mm²	or
	6	-XE:402	1,5 mm²	or
	7			
	8	-51K1:24	1,5 mm²	or
	11	-XE:408	1,5 mm²	or
	9			

+M1-51K5
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-35K2:13	1,0 mm²	ws
	10	-51K4:A1	1,5 mm²	br
	4			
	1	-72T1:21	1,5 mm²	ws
	3	-9F8:1	1,5 mm²	rt
	5			
	6			
	7			
	8			
	11			
	9			

+M1-52K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-52K2:11	1,0 mm²	ws
	10	-51K7:A1	1,5 mm²	br
	4			
	1	-X:218	1,5 mm²	br
	3	-XM:1d	1,5 mm²	br
	5			
	6			
	7			
	8	-35K3:21	1,0 mm²	ws
	11	-52K2:2	1,0 mm²	ws
	9			

+M1-52K2
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-52K1:11	1,0 mm²	ws
	10	-52K1:10	1,5 mm²	br
	4			
	1	-X:219	1,5 mm²	br
	3	-52K1:3	1,5 mm²	br
	5			
	6			
	7			
	8	-35K3:11	1,0 mm²	ws
	11	-52K1:2	1,0 mm²	ws
	9			

+M1-12Q1
374524 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-35K3:22	1,0 mm²	ws
	A2	-11B1:A2	1,5 mm²	br
	1	-12Q2:2	1,5 mm²	sw
	2	-XH:900	1,5 mm²	sw
	3	-12Q2:4	1,5 mm²	sw
	4	-XH:901	1,5 mm²	sw
	5	-12Q2:6	1,5 mm²	sw
	6	-XH:902	1,5 mm²	sw
	13			
	14			

+M1-13Q1
374524 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-35K3:12	1,0 mm²	ws
	A2	-12Q1:A2	1,5 mm²	br
	1	-13Q2:2	1,5 mm²	sw
	2	-XH:936	1,5 mm²	sw
	3	-13Q2:4	1,5 mm²	sw
	4	-XH:937	1,5 mm²	sw
	5	-13Q2:6	1,5 mm²	sw
	6	-XH:938	1,5 mm²	sw

Symbol	Pin	Indi cazione Target		
	13			
	14			

+M1-16Q1
374524 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-35K1:11	1,0 mm²	ws
	A2	-15Q1:A2	1,5 mm²	br
	1	-16K2:1	1,5 mm²	or
	2	-XH:906	1,5 mm²	or
	3			
	4			
	5			
	6			
	13			
	14			

+M1-16Q2
374524 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-35K1:14	1,0 mm²	ws
	A2	-16K2:10	1,5 mm²	br
	1	-16F2:2	1,5 mm²	sw
	2	-XH:924	1,5 mm²	sw
	3			
	4			
	5			
	6			
	13			
	14			

+M1-11Q1
374527 7,5kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-51K7:31	1,0 mm²	ws
	A2	-XM:1c	1,5 mm²	br
	1	-11Q2:2	2,5 mm²	sw
	2	-XH:913	2,5 mm²	sw
	3	-11Q2:4	2,5 mm²	sw
	4	-XH:914	2,5 mm²	sw

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			Desig.	Streiter Daniela			Device connection diagram
			Print	11.03.2015	CPL JMS 612 F02 Politecnico		
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric8	

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+M1-11Q1
374527 — 7,5kW/24VDC

Symbol	Pin	Indi cazione Target		
	5	-11Q2:6	2,5 mm²	sw
	6	-XH:915	2,5 mm²	sw

+M1-15Q1
374528 — 11kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-50K1:21	1,0 mm²	ws
	A2	-13B1:A2	1,5 mm²	br
	1	-15F1:2	4,0 mm²	sw
	2	-XH:907	2,5 mm²	sw
	3	-15F1:4	4,0 mm²	sw
	4	-XH:908	2,5 mm²	sw
	5	-15F1:6	4,0 mm²	sw
	6	-XH:909	2,5 mm²	sw

+M1-24B1
385280 — 24VDC Level = 22V HYS % = 10%

Symbol	Pin	Indi cazione Target		
	A1	-24F1:13	1,0 mm²	ws
	A2	-21K1:A1	1,5 mm²	br
	12			
	11	-34K2:11	1,0 mm²	ws
	14	-81K1:13	1,5 mm²	rt

+M1-20K1
450901 — NAIS/24VDC

Symbol	Pin	Indi cazione Target		
	86	-20K2:1	1,0 mm²	ws
	85	-XM:2b	1,5 mm²	br
	87a			
	30	-50K1:24	1,5 mm²	rt
	87	-X:192	1,0 mm²	ws

+M1-51K6
450901 — NAIS/24VDC

Symbol	Pin	Indi cazione Target		
	86	-35K2:25	1,0 mm²	ws
	85	-XM:8a	1,5 mm²	br
	87a			
	30	-70F3:1	1,5 mm²	ws

Symbol	Pin	Indi cazione Target		
	87	-69K1:30	1,5 mm²	ws

+M1-64K1
450901 — NAIS/24VDC

Symbol	Pin	Indi cazione Target		
	86	-64K2:44	1,0 mm²	ws
	85	-XM:9a	1,5 mm²	br
	87a			
	30	-70F1:1	1,5 mm²	ws
	87	-69K1:30	1,5 mm²	ws

+M1-65K1
450901 — NAIS/24VDC

Symbol	Pin	Indi cazione Target		
	86	-35K2:23	1,0 mm²	ws
	85	-XM:9b	1,5 mm²	br
	87a			
	30	-70F4:1	1,5 mm²	ws
	87	-9F7:1	1,5 mm²	rt

+M1-69K1
450901 — NAIS/24VDC

Symbol	Pin	Indi cazione Target		
	86	-47R1:A	1,0 mm²	ws
	85	-XM:10c	1,5 mm²	br
	87a			
	30	-64K1:87	1,5 mm²	ws
	87	-9F7:1	1,5 mm²	rt

+M1-51K3
456598 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-35K2:12	1,0 mm²	ws
	A2	-51K2:A1	1,5 mm²	br
	13			
	14			
	21	-67K1:24	1,0 mm²	ws
	22	-20K2:3	1,0 mm²	ws
	33	-67K1:S34	1,0 mm²	ws
	34	-67K1:S22	1,0 mm²	ws
	43			

Symbol	Pin	Indi cazione Target		
	44			

+M1-64K2
510078 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-79K2:33	1,0 mm²	ws
	A2	-61K1:A1	1,5 mm²	br
	13			
	14			
	22	-67K1:S12	1,0 mm²	ws
	21	-79K2:14	1,0 mm²	ws
	32	-68K1:S12	1,0 mm²	ws
	31	-20K2:7	1,0 mm²	ws
	43	-81K1:34	1,0 mm²	ws
	44	-64K1:86	1,0 mm²	ws

+M1-11B1
550960 — I≥8A; 1 turn 2...20A

Symbol	Pin	Indi cazione Target		
	A1			
	A2	-11Q1:A2	1,5 mm²	br
	Y1			
	12			
	11	-51K7:34	1,5 mm²	rt
	14	-27R13:2	1,0 mm²	ws

+M1-13B1
550960 — I≥2A; 3 turns 2...20A

Symbol	Pin	Indi cazione Target		
	A1	-11B1:11	1,5 mm²	rt
	A2	-13Q1:A2	1,5 mm²	br
	Y1			
	12			
	11	-13B1:A1	1,5 mm²	rt
	14	-27R12:2	1,0 mm²	ws

+M1-79K2
552190 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-79K1:J2_4	1,0 mm²	ws
	A2	-64K2:A2	1,5 mm²	br

Symbol	Pin	Indi cazione Target		
	13	-81K1:23	1,0 mm²	ws
	14	-X:21	1,0 mm²	ws
	23	-79K1:J2_1	1,0 mm²	ws
	24	-81K1:43	1,0 mm²	ws
	33	-35K1:25	1,0 mm²	ws
	34	-81K1:33	1,0 mm²	ws
	43	-24B1:14	1,5 mm²	rt
	44	-34K2:22	1,0 mm²	ws

+M1-81K1
552190 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-68K1:37	1,0 mm²	ws
	A2	-79K2:A2	1,5 mm²	br
	13	-21K1:22	1,5 mm²	rt
	14	-34K1:22	1,0 mm²	ws
	24	-64K2:22	1,0 mm²	ws
	23	-79K2:13	1,0 mm²	ws
	33	-79K2:34	1,0 mm²	ws
	34	-64K2:43	1,0 mm²	ws
	43	-79K2:24	1,0 mm²	ws
	44	-50K2:7	1,0 mm²	ws

+M1-21Q1
582593 — 24VDC

Symbol	Pin	Indi cazione Target		
	1	-21R1:K1	1,5 mm²	ws
	2	-21R1:A1	1,5 mm²	br
	5	-23X4:1	25 mm²	rt
	3	-21F1:1	25 mm²	rt

+M1-20K3
584729 — HJ

Symbol	Pin	Indi cazione Target		
	A2	-35K1:23	1,0 mm²	ws
	A1	-20K2:10	1,5 mm²	br
	12			
	11			
	14			
	22			

Symbol	Pin	Indi cazione Target		
	21	-X:194	1,0 mm²	ws
	24	-20K1:30	1,5 mm²	rt
	32			
	31			
	34			
	42			
	41			
	44			

+M1-21K1
584729 — HJ

Symbol	Pin	Indi cazione Target		
	A2	-35K3:13	1,0 mm²	ws
	A1	-20K3:A1	1,5 mm²	br
	12			
	11			
	14			
	22	-20K3:24	1,5 mm²	rt
	21	-21R1:K2	1,0 mm²	ws
	24			
	32			
	31			
	34			
	42			
	41			
	44			

+M1-50K1
584729 — HJ

Symbol	Pin	Indi cazione Target		
	A2	-35K1:21	1,0 mm²	ws
	A1	-24B1:A2	1,5 mm²	br
	12			
	11			
	14			
	22			
	21	-15Q1:A1	1,0 mm²	ws
	24	-13B1:11	1,5 mm²	rt
	32			

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			Desig.	Streiter Daniela			Device connection diagram	Suffix	+ M1
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Schema allacciamento apparecchiature
Device connection diagram

+M1-50K1
584729 HJ

Symbol	Pin	Indi cazione Target		
32 34 / 31	31			
	34			
42 44 / 41	42			
	41			
	44			

+M1-50K3
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-35K1:24	1,0 mm²	ws
	A1	-50K2:10	1,5 mm²	br
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21	-XE:409	1,5 mm²	or
	24	-50K5:8	1,5 mm²	or
32 34 / 31	32			
	31			
	34			
42 44 / 41	42			
	41			
	44			

+M1-50K4
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-35K1:15	1,0 mm²	ws
	A1	-50K3:A1	1,5 mm²	br
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21	-X:100	1,0 mm²	ws
	24	-67K1:14	1,0 mm²	ws
32 34 / 31	32			
	31			

Symbol	Pin	Indi cazione Target		
32 34 / 31	34			
42 44 / 41	42			
	41			
	44			

+M1-51K1
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-35K2:11	1,0 mm²	ws
	A1	-50K5:10	1,5 mm²	br
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21	-XE:407	1,5 mm²	or
	24	-51K2:24	1,5 mm²	or
32 34 / 31	32			
	31			
	34			
42 44 / 41	42			
	41			
	44			

+M1-51K2
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-35K2:21	1,0 mm²	ws
	A1	-51K1:A1	1,5 mm²	br
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21	-XE:406	1,5 mm²	or
	24	-51K4:24	1,5 mm²	or
32 34 / 31	32			
	31			
	34			
42 44 / 41	42			
	41			

Symbol	Pin	Indi cazione Target		
42 44 / 41	44			

+M1-51K4
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-35K2:22	1,0 mm²	ws
	A1	-51K3:A2	1,5 mm²	br
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21	-XE:405	1,5 mm²	or
	24	-XE:404	1,5 mm²	or
32 34 / 31	32			
	31			
	34			
42 44 / 41	42			
	41			
	44			

+M1-51K7
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-35K2:16	1,0 mm²	ws
	A1	-51K5:10	1,5 mm²	br
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21			
	24			
32 34 / 31	32			
	31	-11Q1:A1	1,0 mm²	ws
	34	-XP:1b	1,5 mm²	rt
42 44 / 41	42			
	41			
	44			

+M1-61K1
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-35K1:12	1,0 mm²	ws
	A1	-52K2:10	1,5 mm²	br
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21	-X:54	1,0 mm²	ws
	24	-74K2:24	1,5 mm²	rt
32 34 / 31	32			
	31			
	34			
42 44 / 41	42			
	41			
	44			

+M1-74K1
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-XE:415	1,5 mm²	or
	A1	-XE:416	1,5 mm²	or
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21	-34K3:14	1,0 mm²	ws
	24	-12Q2:13	1,5 mm²	rt
32 34 / 31	32			
	31			
	34			
42 44 / 41	42			
	41			
	44			

+M1-74K2
584729 HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-74K1:A2	1,5 mm²	or

Symbol	Pin	Indi cazione Target		
A2 / A1	A1	-XE:417	1,5 mm²	or
12 14 / 11	12			
	11			
	14			
22 24 / 21	22			
	21	-34K3:24	1,0 mm²	ws
	24	-74K1:24	1,5 mm²	rt
32 34 / 31	32			
	31			
	34			
42 44 / 41	42			
	41			
	44			

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+V1
Prelubrication 1

Condizioni limite dei motori a gas GE Jenbacher, vedere IT n.: 1100-0110
For boundary conditions for GE Jenbacher gas engines, see TI no.: 1100-0110

Con riserva di modifiche alla costruzione
Design changes reserved.

Con riserva di modifiche nelle bozze.
We reserve the right to change draft plans.

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These drawings have been prepared on a CAE system. Changes may only be made by GE Jenbacher using the parameters of the original.

I numeri relativi all'attribuzione dei componenti si riferiscono ai numeri della lista interfaccia e dello schema tecnico
The numbers in the part reference list are in relation with the numbers in the Interface-list and the Technical schema

J T132 00 03

Tutti i cavi tra gruppo e comando relativo devono essere posati con flessibilità..
All cables between the generating set and its control equipment must be of flexible construction..

In fase di montaggio le misure di protezione contro le scariche elettriche, la messa a terra, la compensazione di potenziale devono essere attuate in conformità con le prescrizioni locali del cliente.
The protective measures against electric shocks, earthing and equipotential bonding must be implemented by the customer during assembly in accordance with local regulations.

Nr.
-SSLxx

I numeri nei cerchi o nei triangoli si riferiscono ai numeri della lista dell'interfaccia.
The numbers in circles or boxes refer to the numbers in the interface list.

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+V1/3	INFORMAZIONI TECNICHE TECHNICAL INFORMATION	
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+V1/5	Presa di massa/Collegamento a terra Earthing/Grounding	
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Standard *Standard*	**IEC 61439-2**	*Protezione* *Protection*	IP54	(Esterno) : Installazione in ambienti interni (Sala quadri) (External) : Indoor installation (control cabinet room)	IP2X / IPXXB (interno) (internal)
Architettura rete (Alimentazione) *Net form (supply)*	TN-S	*Protezione di base* *Basic protection*	Protezione data dall'alloggiamento Protection by housing	*Protezione in caso di guasti* *Fault protection*	Protezione data da disinserimento automatico Protection through automatic power supply cut-off

Tensione nominale *Rated voltage*	Un = 24V		
Tensione isolamento nominale (DC) *Rated insulation voltage (DC)*	Ui = 30V		
Resistenza alla tensione impulsiva nominale *Rated impulse withstand voltage*	Uimp = 2,5kV (Cat. II)		
Circuiti di corrente ausiliari *Auxiliary power circuits*	Vaux = 24VDC		
Compatibilità elettromagnetica *electromagnetic compatibility*	*CEM Immunità* *EMC Immunity*	Environment A	
	CEM Emissione errori *EMC Emission*	Environment A	
Ampiezza oscillazione frequenza statica *Static frequency oscillation width*	+4 / -6%	*Tipo di installazione* *Installation type*	stazionario stationary
Deviazione tensione statica *Static voltage difference*	± 10%	*Altezza installazione* *Installation site height*	< 2000m
Deviazione frequenza dinamica *Dynamic frequency difference*	+18 / -25%	*temperatura ambientale* *ambient temperature*	-5°C - +40°C
Tempo regolazione frequenza *Frequency control settling time*	10 sec	*Temperatura aria ambiente media massima entro 24h* *average maximum ambient temperature within 24h*	+35°C
Deviazione tensione dinamica *Dynamic voltage difference*	+35 / -25%	*Umidità relativa aria* *Relative humidity*	< 70%
Tempo regolazione tensione *Voltage control settling time*	10 sec	*Grado di imbrattamento* *Degree of fouling*	3

<u>EN 61439 § 5.6.g:</u>

I lavori sul quadro elettrico possono essere eseguiti esclusivamente a cura di elettricisti

Work on and inside the switchgear cabinet should only be carried out by electrical specialists

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Foglio di coperta Morsettiere

Overview Terminal strips

-X:

-X = Morsetti
generale
Terminals
general

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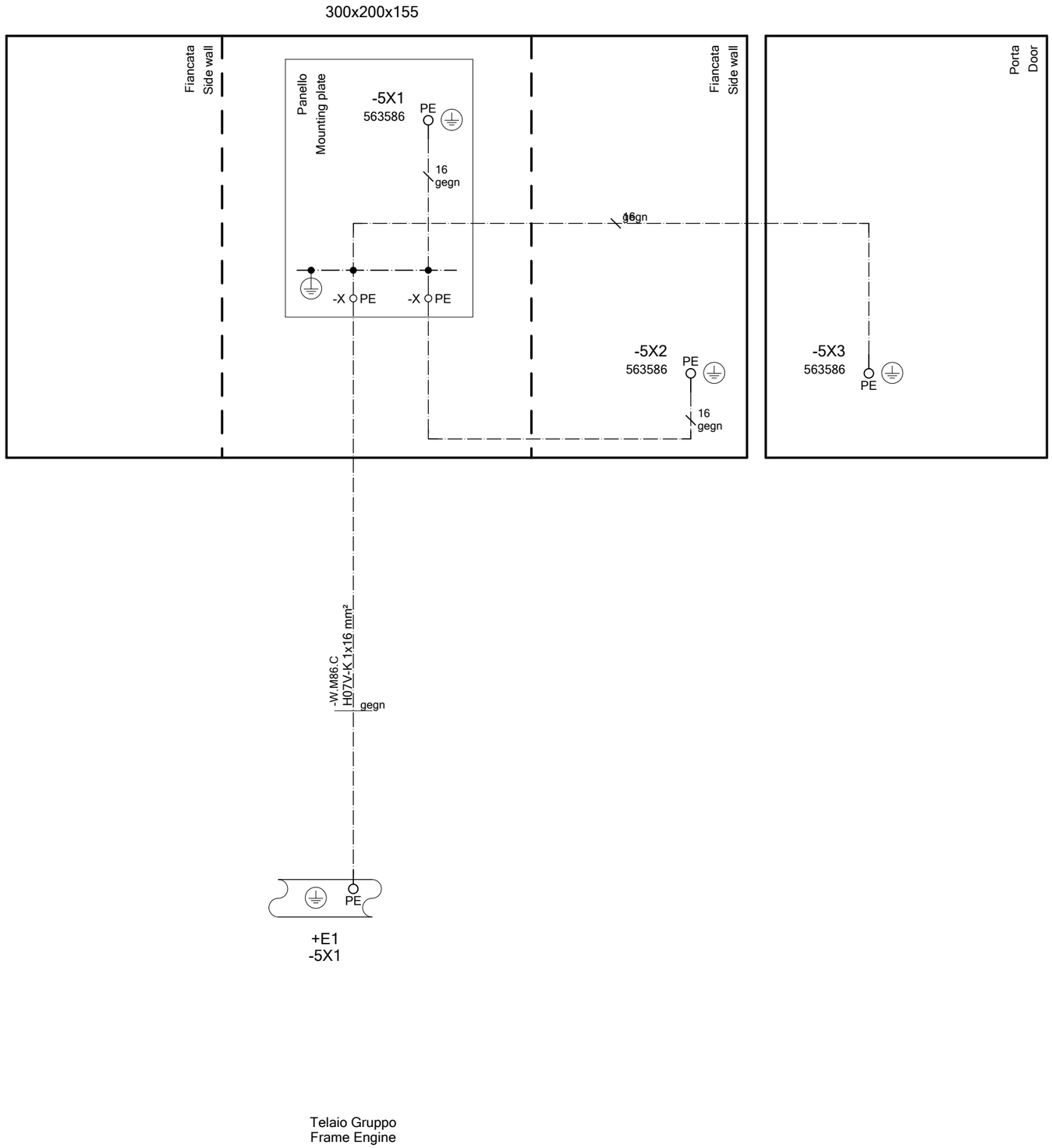

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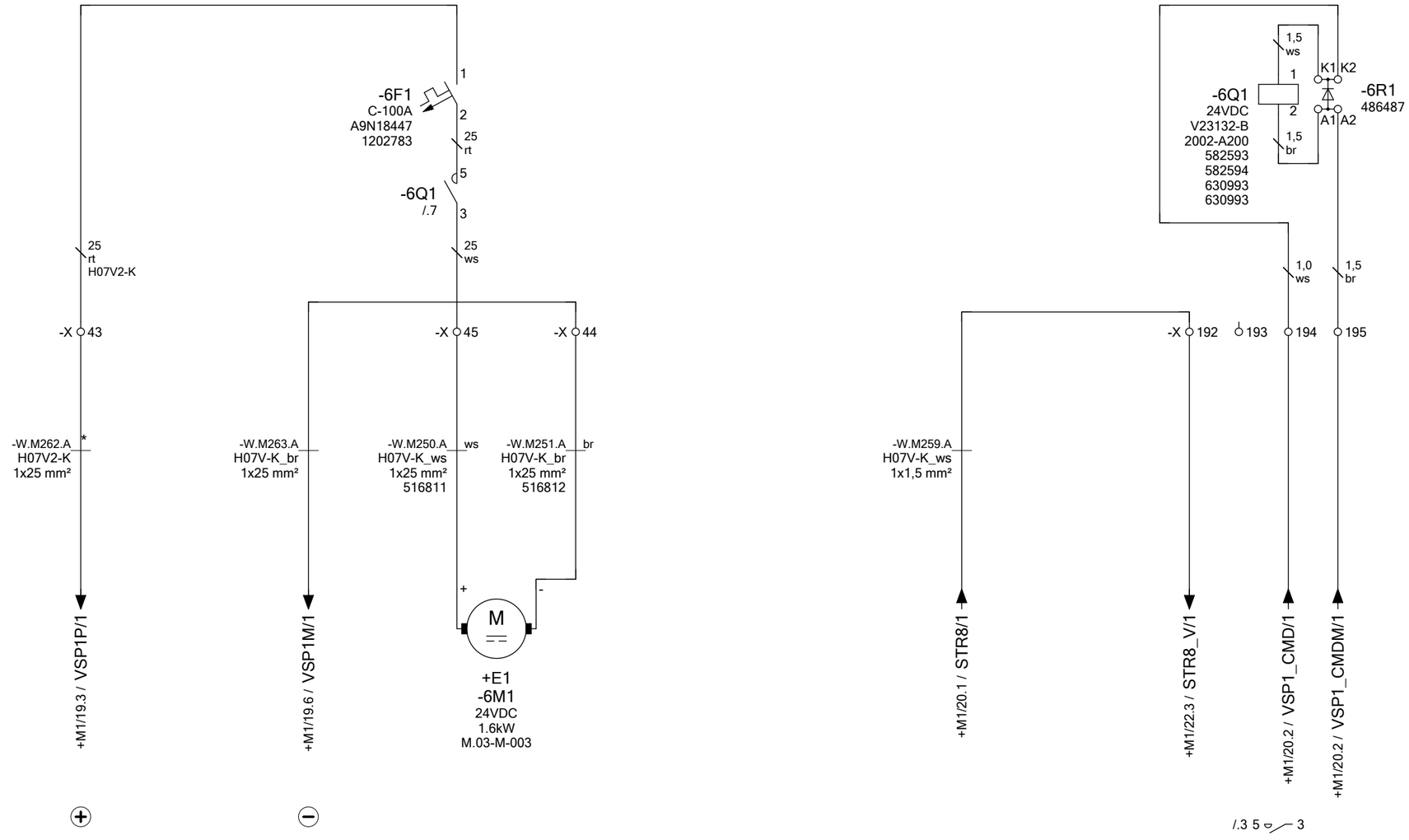

* = [H07V2-K + guaina di protezione]
* = [H07V2-K + protective hose]

24VDC Punto distribuzione
24VDC Base

24VDC Punto distribuzione
24VDC Base

Pompa olio DC 1
Oil pump DC 1

Comando: Motorino d'avviamento
Command: Starter motor

Comando: Pompa olio DC
Command: Oil pump DC

5

7

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Schema dei collegamenti
Terminal connection diagram

+V1-X

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Ponti / Jumpers	-	-	-	-	-	-	-	-	-
Collegamento / Connection	43	44	45	192	193	194	195	PE	PE
Cavi / Cable	-W.M262.A H07V2-K 1x25 mm²	br -W.M251.A H07V-K_br 1x25 mm² br	ws -W.M250.A H07V-K_ws 1x25 mm² ws	+M1-W.M259.A Kabelbaum 10x1 mm²		1 +M1-W.M265.A YSLY-OZ 4x1,5 mm² 1	2	gegn -W.M86.C H07V-K 1x16 mm² gegn	gegn gegn
Indi cazione / Target	+M1 -P	- +E1 -6M1	+	50 +E1 -22M1 50		194 +M1 -X 194	195	PE +E1 -5X1 PE	PE +V1 -5X2 PE
P&ID-TAG		M.03-M-003		E.00-M-001 [01]					
Foglio / Page	+M1/19.2	/6.3		+M1/22.2		+M1/4.3		/5.3	/5.5
Test funzionamento / Function text	24VDC Punto distribuzione / 24VDC Base	Pompa olio DC 1 / Oil pump DC 1	"	Comando: Motorino d'avviamento / Command: Starter motor	"	Comando: Pompa olio DC / Command: Oil pump DC	"	Telaio Gruppo / Frame Engine	"

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Schema allacciamento apparecchiature
Device connection diagram

+V1-6F1
1202783 C-100A

Symbol	Pin	Indi cazione Target		
	1	-X:43	25 mm²	rt
	2	-6Q1:5	25 mm²	rt

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Schema allacciamento apparecchiature
Device connection diagram

+V1-6Q1
582593 24VDC

Symbol	Pin	Indi cazione Target		
1 / 2	1	-6R1:K1	1,5 mm²	ws
	2	-6R1:A1	1,5 mm²	br
5 / 3	5	-6F1:2	25 mm²	rt
	3	-X:45	25 mm²	ws

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+A1
Module control panel 1

Condizioni limite dei motori a gas GE Jenbacher, vedere IT n.: 1100-0110
For boundary conditions for GE Jenbacher gas engines, see TI no.: 1100-0110

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J T132 00 03

Tutti i cavi tra gruppo e comando relativo devono essere posati con flessibilità..
All cables between the generating set and its control equipment must be of flexible construction..

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The protective measures against electric shocks, earthing and equipotential bonding must be implemented by the customer during assembly in accordance with local regulations.

Nr.
-SSLxx

I numeri nei cerchi o nei triangoli si riferiscono ai numeri della lista dell'interfaccia.
The numbers in circles or boxes refer to the numbers in the interface list.

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+A1/6	Quadro Tetto / 1000 Panel Roof / 1000	
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+A1/8	Presa di massa/Collegamento a terra Earthing/Grounding	
+A1/9	Presa di massa/Collegamento a terra Collegamento A - D Earthing/Grounding Connection A - D	
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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Indice Diagram index	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 2.2
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Standard *Standard*	**IEC 61439-2**	*Protezione* *Protection*	IP42	(Esterno) : Installazione in ambienti interni (Sala quadri) (External) : Indoor installation (control cabinet room)	IP2X / IPXXB (interno) (internal)
Architettura rete (Alimentazione) *Net form (supply)*	TN-S	*Protezione di base* *Basic protection*	Protezione data dall'alloggiamento Protection by housing	*Protezione in caso di guasti* *Fault protection*	Protezione data da disinserimento automatico Protection through automatic power supply cut-off

Tensione nominale *Rated voltage*	Un = 400V	*Corrente nominale (Apparecchiature assiemate di protezione e di manovra)* *Rated current (Switchgear assembly)*	InA = 63A
Tensione isolamento nominale (AC/DC) *Rated insulation voltage (AC/DC)*	Ui = 400V / 30V	*Fattore di carico nominale (Apparecchiature assiemate di protezione e di manovra)* *Rated diversity factor (Switchgear assembly)*	RDF = 1
Resistenza alla tensione impulsiva nominale *Rated impulse withstand voltage*	Uimp = 2,5kV (Cat. II)	*Resistenza nominale corrente di cresta (Apparecchiature assiemate di protezione e di manovra)* *Rated peak withstand current (Switchgear assembly)*	Ipk = 35,5kA
Frequenza nominale *Rated frequency*	fn = 50Hz		
Corrente di corto circuito nominale, condizionato (Fusibile) *Rated short-circuit current, conditional (Back-up fuse)*	Icc = 100kA	*Fusibile consigliato* *Recommended fuse*	Siemens NH 3NAx (IEC 60269-3-1)
Caratteristiche di limitazione di corrente (Fusibile) *Current-limitation characteristics (Back-up fuse)*	I^2t = 19000A²s		
Corrente nominale (Circuiti elettrici) *Rated current (Electric circuits)*	Inc = Se non indicato diversamente: corrente nominale dell'organo di protezione o valore massimo impostato dell'interruttore di circuito motore If no specific value is given: rated voltage of the protective device or maximum current-setpoint of the motor circuit breaker		
Circuiti di corrente ausiliari *Auxiliary power circuits*	Vaux = 24VDC		
Compatibilità elettromagnetica *electromagnetic compatibility*	*CEM Immunità* *EMC Immunity* Environment A		
	CEM Emissione errori *EMC Emission* Environment A		
Ampiezza oscillazione frequenza statica *Static frequency oscillation width*	+4 / -6%	*Tipo di installazione* *Installation type*	stazionario stationary
Deviazione tensione statica *Static voltage difference*	± 10%	*Altezza installazione* *Installation site height*	< 2000m
Deviazione frequenza dinamica *Dynamic frequency difference*	+18 / -25%	*temperatura ambientale* *ambient temperature*	-5°C - +40°C
Tempo regolazione frequenza *Frequency control settling time*	10 sec	*Temperatura aria ambiente media massima entro 24h* *average maximum ambient temperature within 24h*	+35°C
Deviazione tensione dinamica *Dynamic voltage difference*	+35 / -25%	*Umidità relativa aria* *Relative humidity*	< 70%
Tempo regolazione tensione *Voltage control settling time*	10 sec	*Grado di imbrattamento* *Degree of fouling*	3

<u>EN 61439 § 5.6.g:</u>

I lavori sul quadro elettrico possono essere eseguiti esclusivamente a cura di elettricisti

Work on and inside the switchgear cabinet should only be carried out by electrical specialists

2.2

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	INFORMAZIONI TECNICHE TECHNICAL INFORMATION	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 3
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_21_1.emp			

Foglio di coperta Morsettiere

Overview Terminal strips

-X:

-X = Morsetti
generale
Terminals
general

-XH:

-XH = Morsetti
Ausiliari
Terminals
Auxiliaries

-XH1:

-XH1 = Morsetti
Circuiti elettrici eccetto
Terminals
Electric circuits except for

-XS:

-XS = Morsetti
Cavo schermato
Terminals
Shielded cable

-XP:

-XP = Morsetti
Punto distribuzione +24VDC
Terminals
Base +24VDC

-XM:

-XM = Morsetti
Punto distribuzione - 0VDC
Terminals
Base - 0VDC

-XE:

-XE = Morsetti
Tensione Esterno
Terminals
Voltage External

-XE1:

-XE1 = Morsetti
Alimentazione Ausiliari
Terminals
supply Auxiliaries

-XCB:

-XCB = Morsetti
Comandi: Interruttore alternatore
/ Interruttore rete
Terminals
Commands: Generator circuit
breaker / Mains circuit breaker

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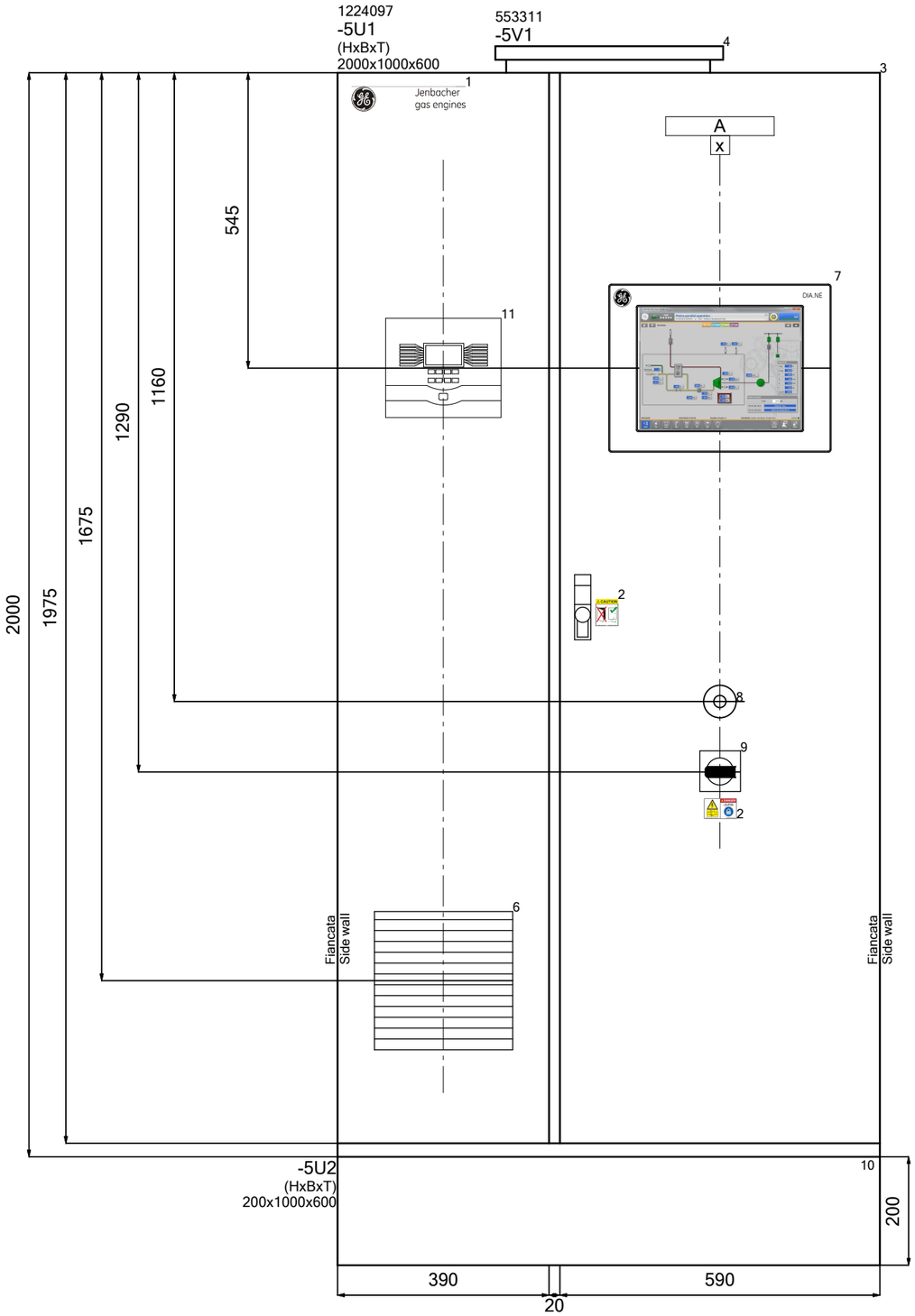
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Foglio di coperta Morsettiere Overview Terminal strips	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 4
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_29.emp			



A	...	"Quadro comando gruppo"
x	...	Numero Number
1	...	etichetta di marca brand label
2	...	etichetta di attenzione caution label
3	-5U1	Quadro Panel
4	-5V1	Uscita dell'aria Air outlet
6	-28M1	Ventilatore del quadro Panel fan
7	-71A1	Touchpanel
8	-81S1	Arresto di emergenza Tasto Emergency stop Push button
9	-24Q1	interruttore principale Supply disconnecting device
10	-5U2	Zoccolo Base
11	-19B1	Rele protezione differenziale Dif protection relay

Colori:
Colour:

Quadro RAL7035
Panel RAL7035

Zoccolo RAL7022
Base RAL7022

Uscita cavi: alto
Cable entry: top

Peso:
Weight:

~250kg

etichuttatura:
labeling:

italian

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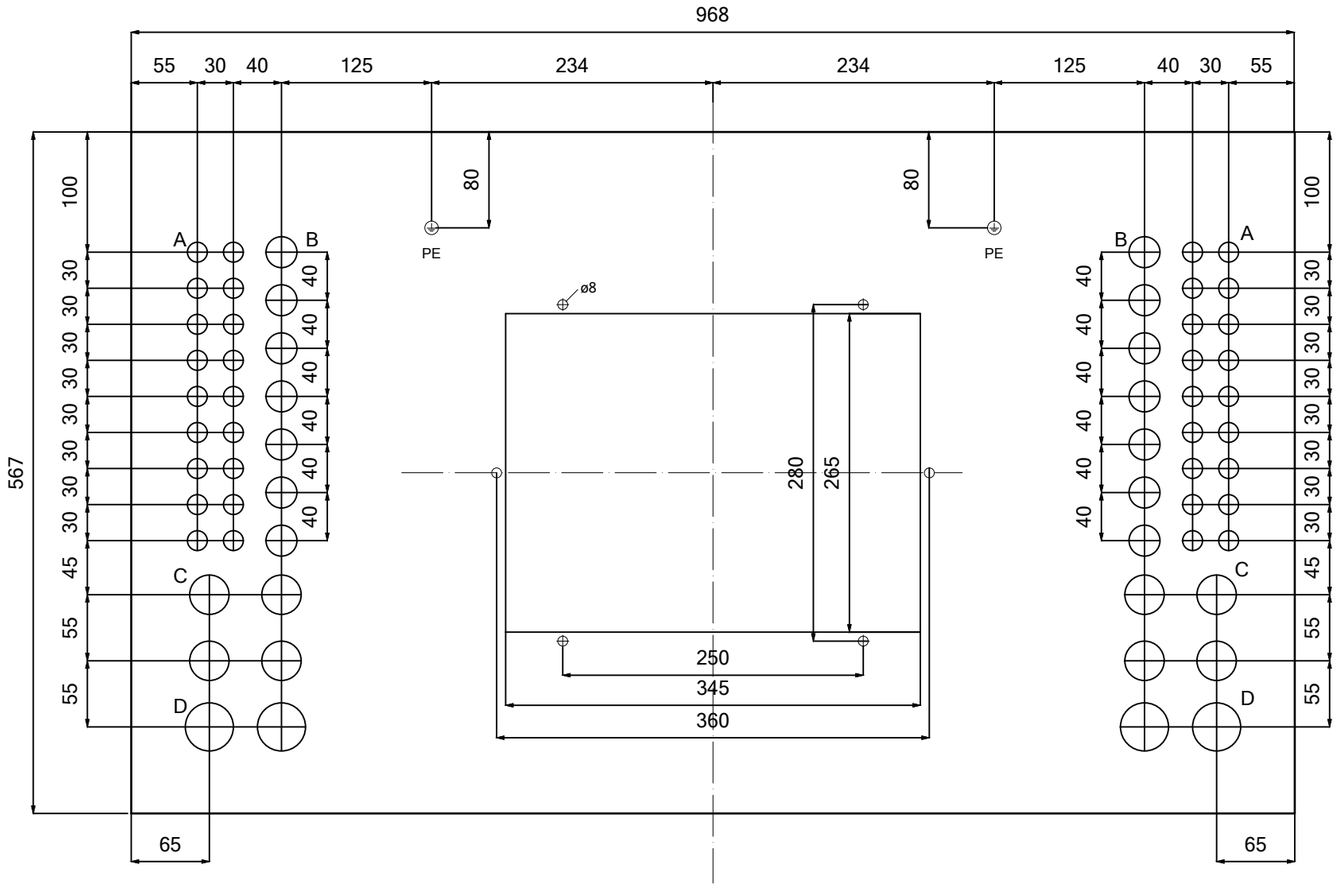
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 5
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_50_00.emp			

Parete posterior

Back wall



A ... ø M16
B ... ø M25
C ... ø M32
D ... ø M40

Cut out prepared
(pre lasered ring - easy to remove)

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Quadro Tetto / 1000 Panel Roof / 1000	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 6
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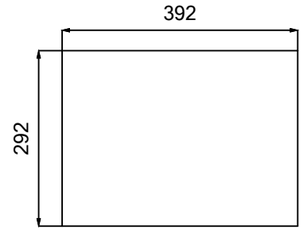
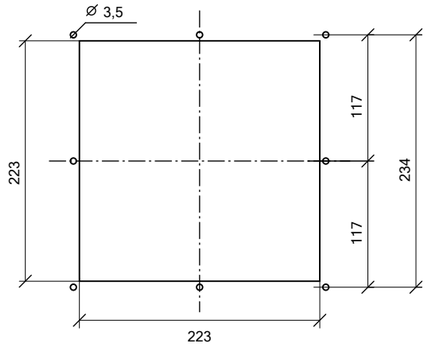
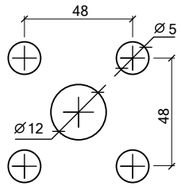
TOUCHPANEL XT4



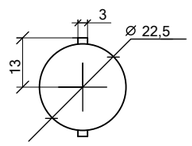
Ventilatore
Fan



Inter. prinzipale ausiliari
Main isolator auxiliaries



Arresto di emergenza
Emergency stop



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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sfinestrature de la porta +A Door cut out +A	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 7
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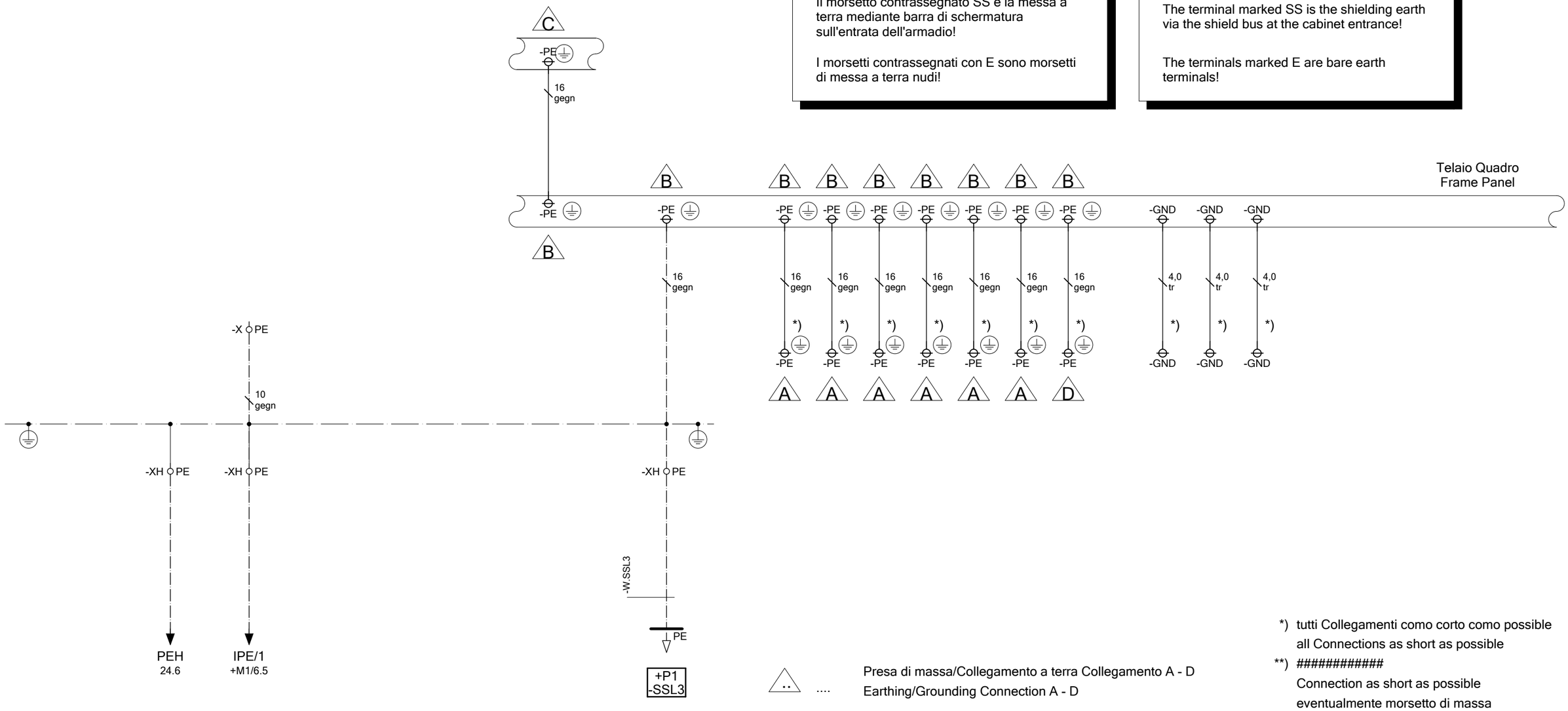
Il morsetto contrassegnato SS è la messa a terra mediante barra di schermatura sull'entrata dell'armadio!

I morsetti contrassegnati con E sono morsetti di messa a terra nudi!

The terminal marked SS is the shielding earth via the shield bus at the cabinet entrance!

The terminals marked E are bare earth terminals!



.... Presa di massa/Collegamento a terra Collegamento A - D
Earthing/Grounding Connection A - D

*) tutti Collegamenti como corto como possible
all Connections as short as possible

**) ############
Connection as short as possible
eventualmente morsetto di massa
possible: contact clip

Collegamento a terra
Grounding

Collegamento equipotenziale Interfaccia modulo
Equipotential bonding
Module interface

Panello
Mounting plate

Collegamento equipotenziale
Equipotential bonding

Porta sinistra bassa
Door left bottom

Porta destra bassa
Door right bottom

Parete posterior
Back wall

Fiancata sinistra
Side wall left

Fiancata destra
Side wall right

Tetto
Roof

Lamiera di uscita
Outlet blades

Porta sinistra alto
Door left top

Porta destra alto
Door right top

Tetto
Roof

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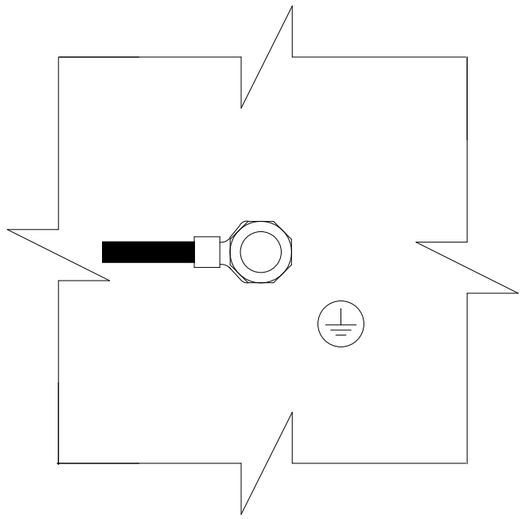
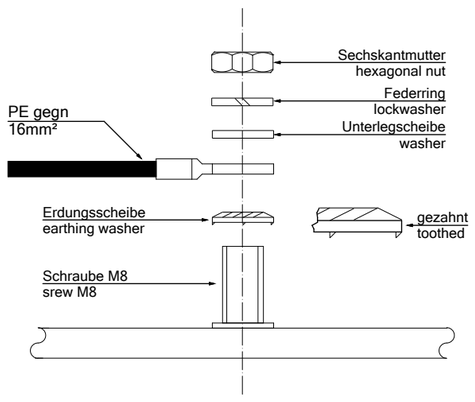
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Presa di massa/Collegamento a terra Earthing/Grounding	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 8
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_86.emp			

A





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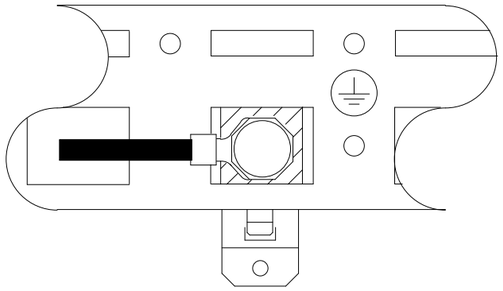

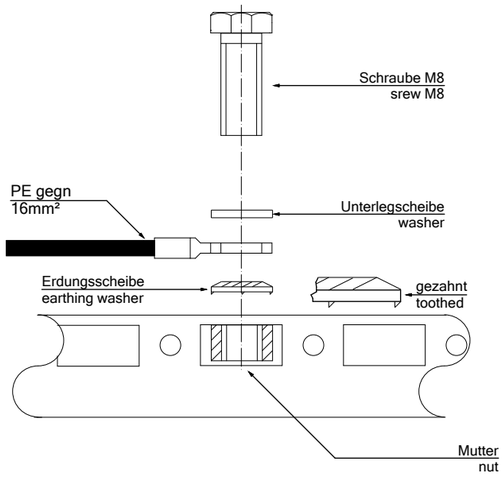

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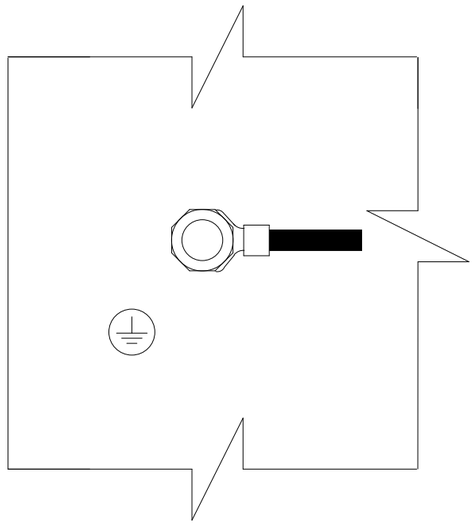

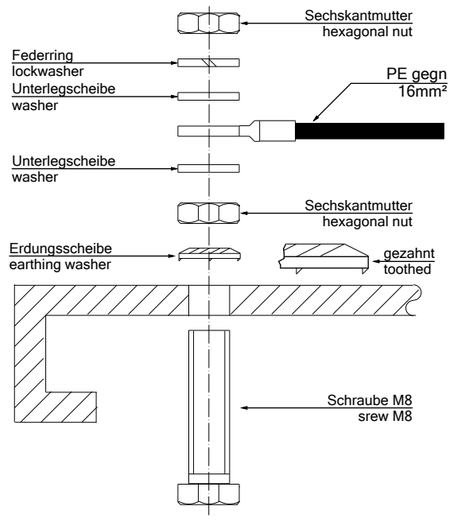

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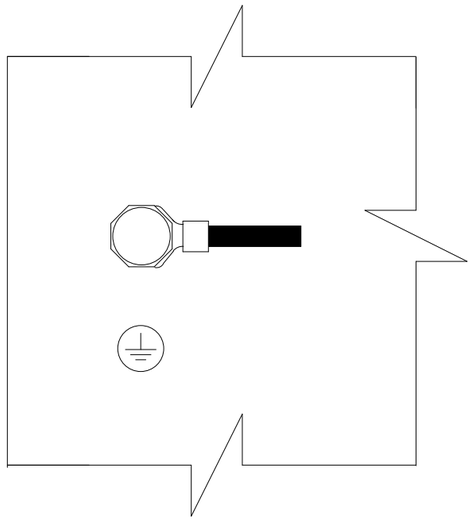

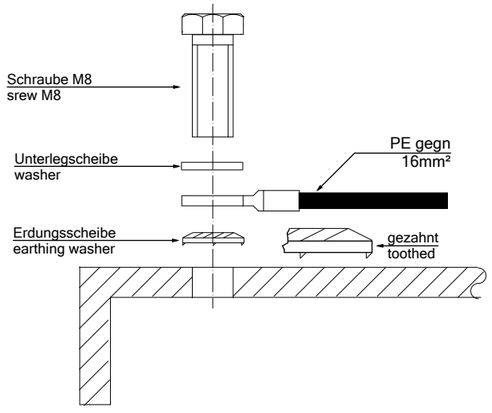

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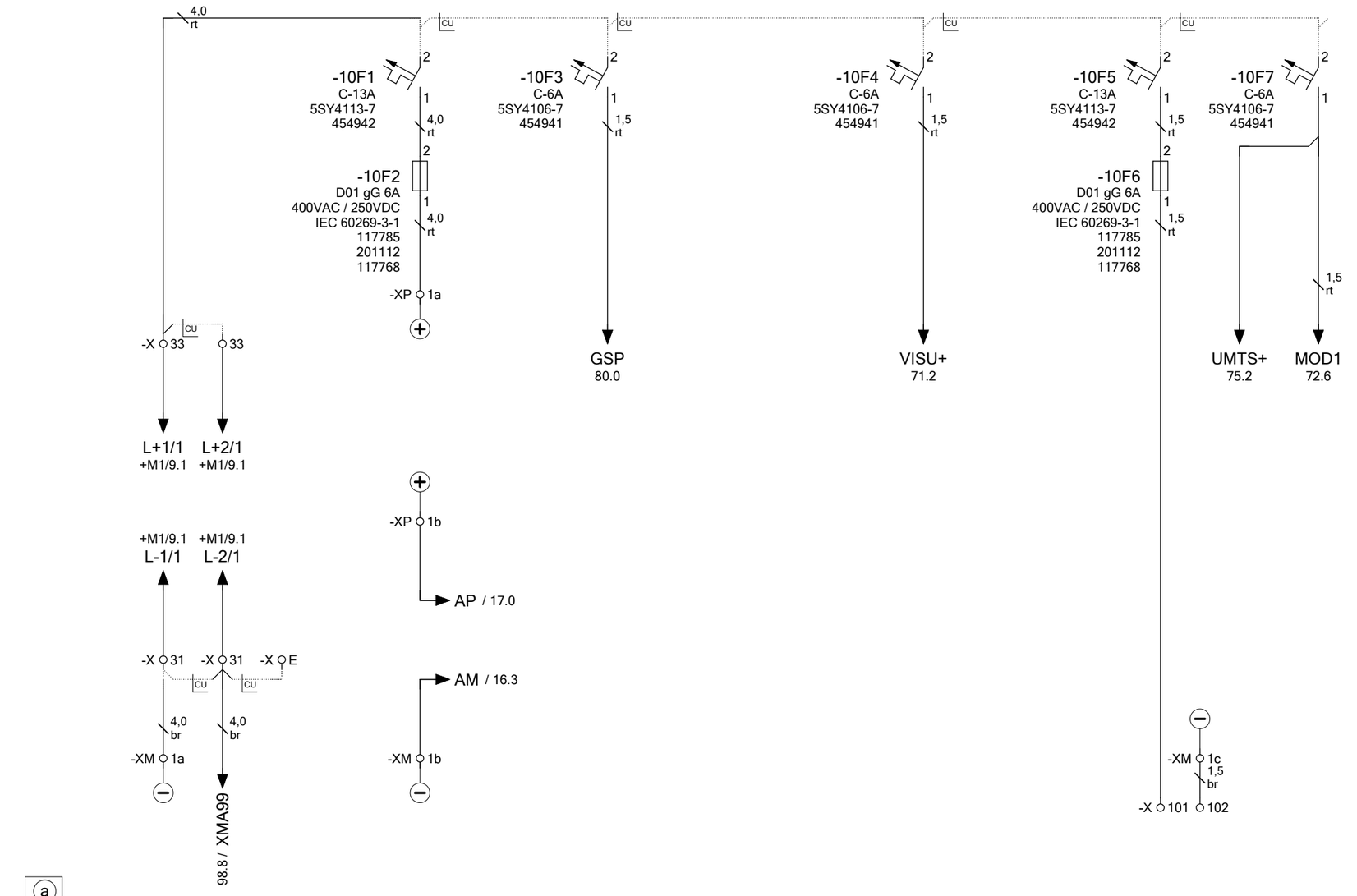
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Presa di massa/Collegamento a terra Collegamento A - D Earthing/Grounding Connection A - D	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 9
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_87.emp			



XP / XM
Klemmen

+ Punto distribuzione
+ Base

Teletrasmissione dati / IPC
Data communication / IPC

Interfaccia modulo: Alimentazione
Module interface: Supply

Interruttore alternatore
Generator circuit breaker

Visualizzazione
Visualisation

Riserva
Spare

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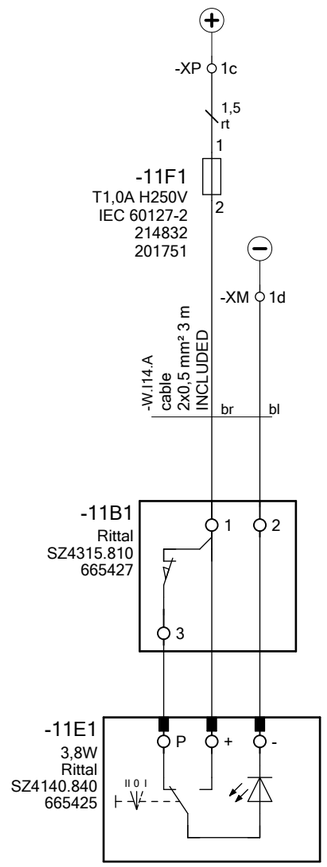
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Distribuzione 24VDC Distribution 24VDC	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 10
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_100.emp			



Luce armadio
Cabinet light

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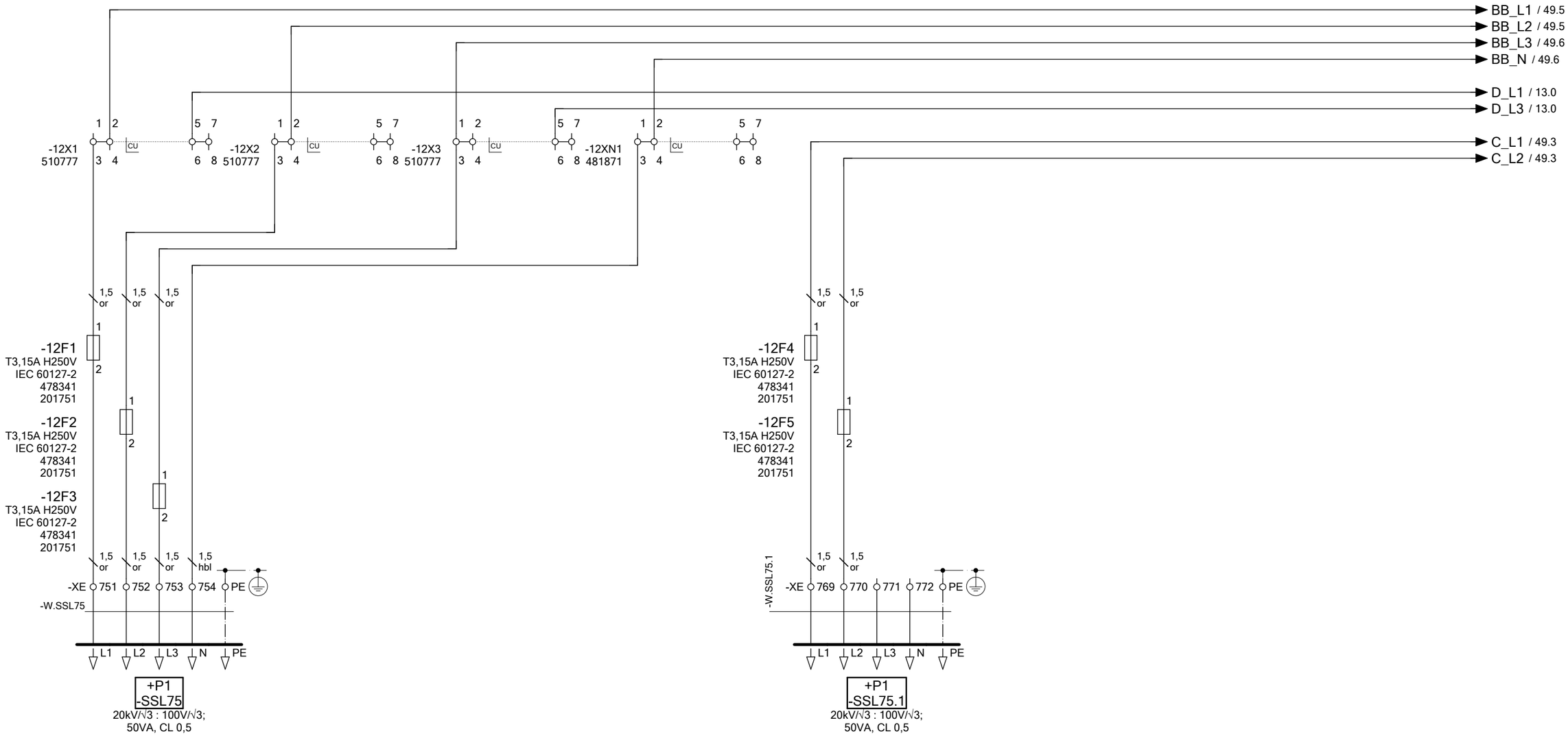
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Luce armadio Cabinet light	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 11
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric SGMACRO\A1_110.emp			



Tensione de la sbarra
Busbar voltage

Tensione de la Trasformatore
Transformer voltage

11

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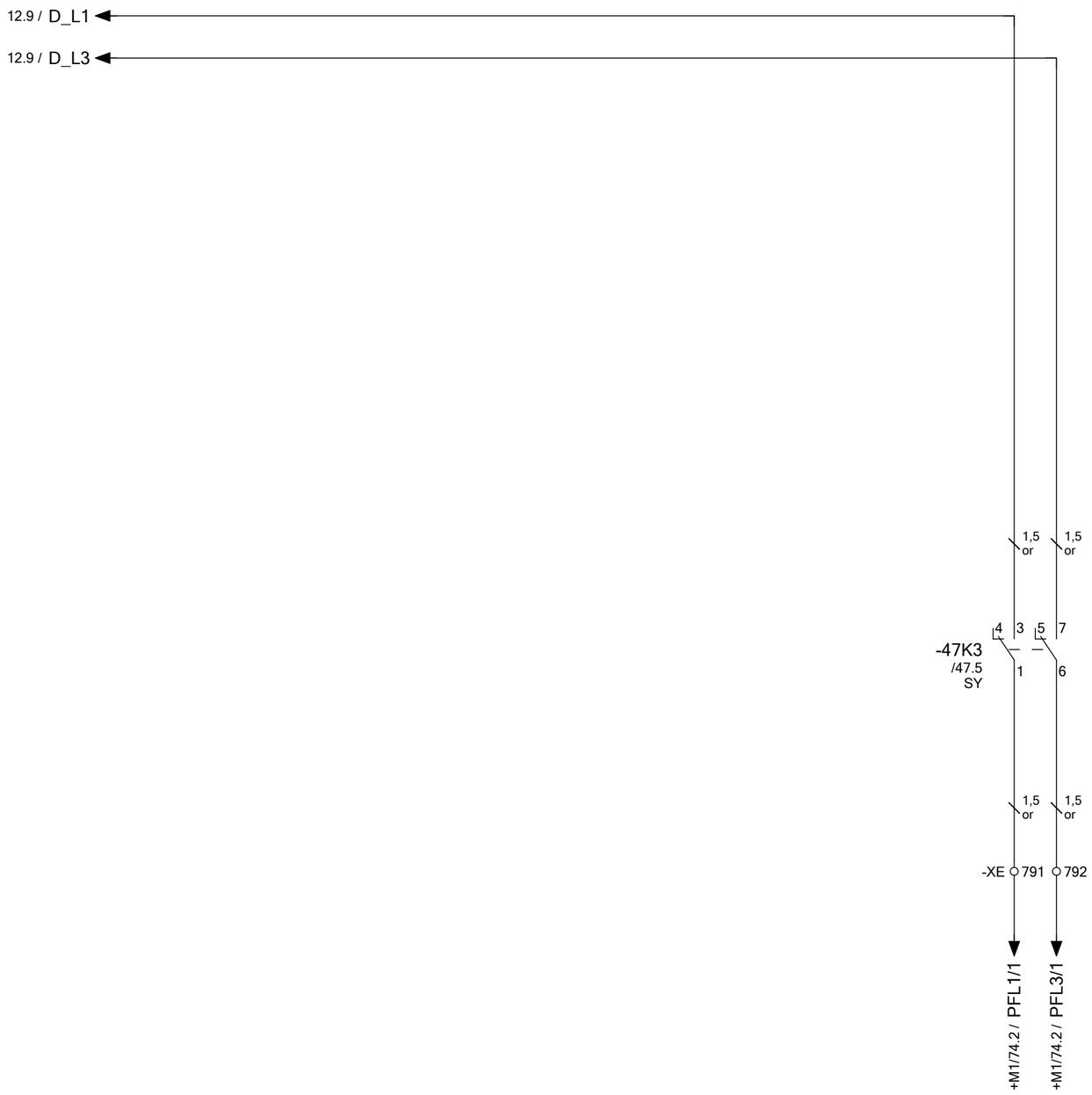
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sceltadi tensione Voltage selection	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 12
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_130.emp			



Rete-Alternatore-Equilibro di tensione
Mains-Generator-Voltage matching

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Equilibro di tensione Voltage matching	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 13
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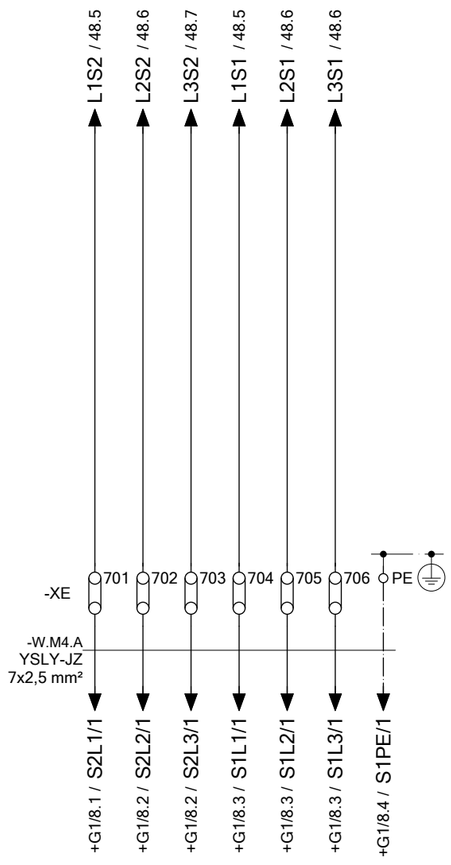
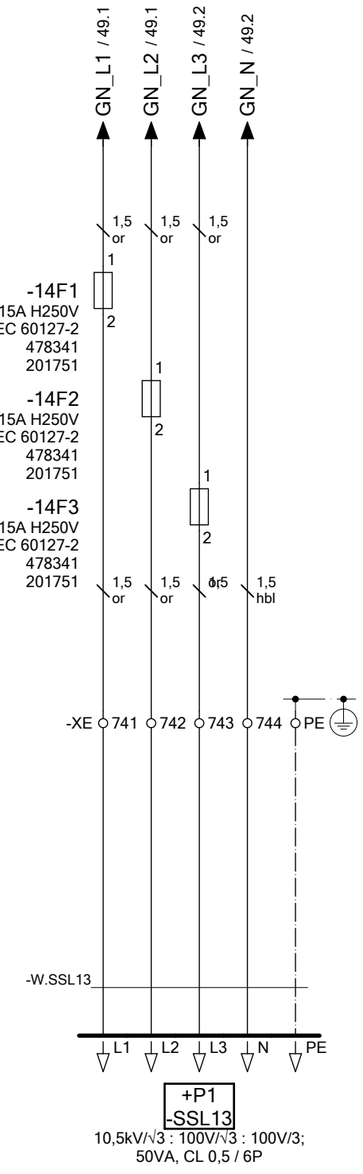


200A/1A;
1FS5, 15VA

Corrente alternatore Trasformatore di misura
Generator current Measuring C.T.S.

13



Tensione alternatore
Generator voltage

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Alternatore: [V] / [A] - Misura Generator: [V] / [A] - Measurement	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 14
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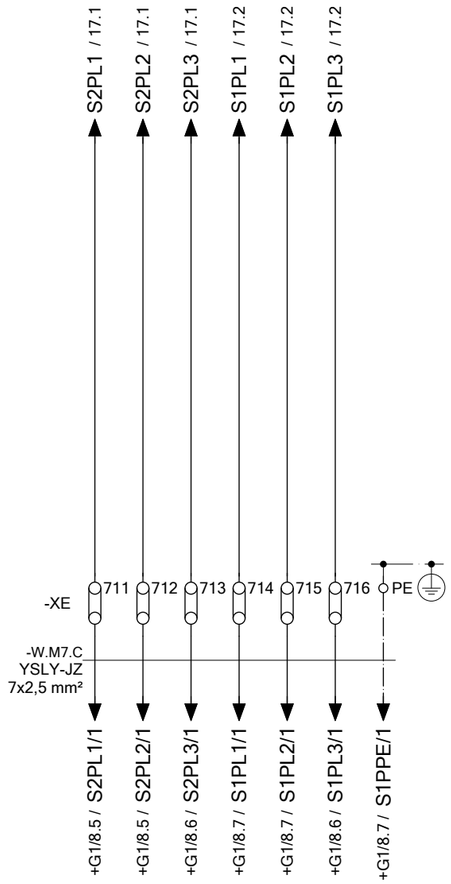
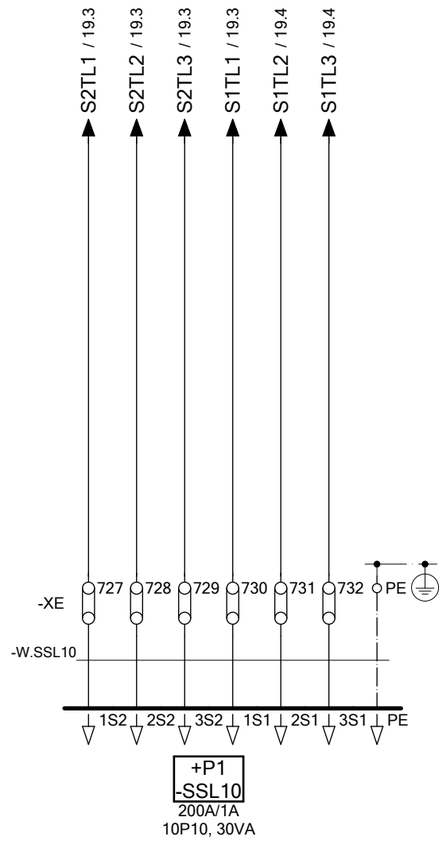
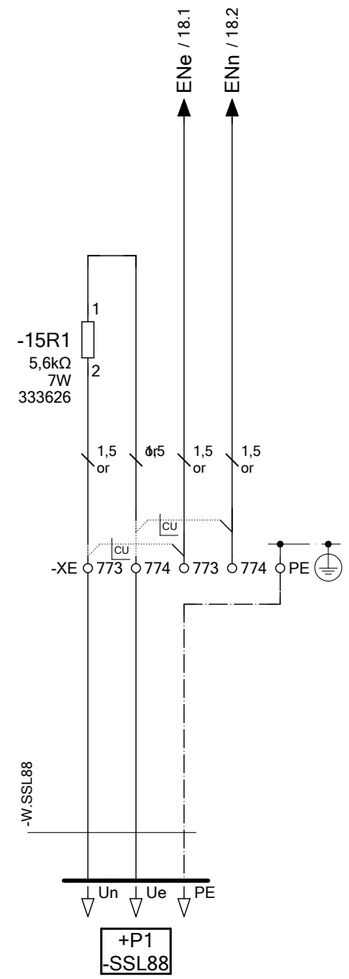


200A/1A;
10P10, 15VA

Corrente alternatore Trasformatore di protezione
Generator current Protection C.T.S.



Corrente del trafo
Transformer current



10,5kV/√3 : 100V/√3 : 100V/3;
50VA, CL 0,5 / 6P

Tensione homopolare 0-30V
Homopolair Voltage 0-30V

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Alternatore: [V / A] - Protezione Generator: [V / A] - Protection	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 15
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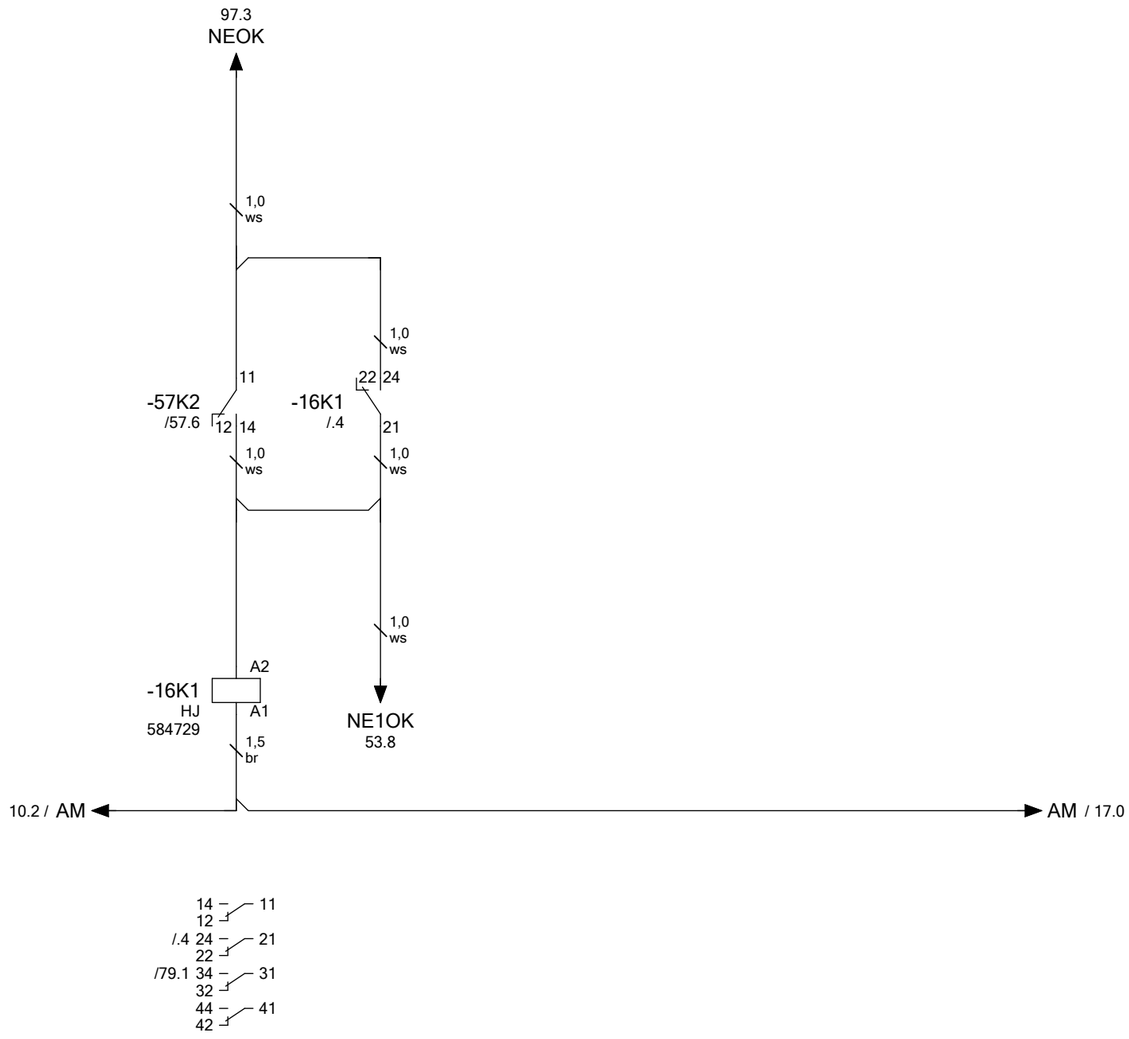

Disinserimento Interruttore alternatore
Switch off Generator circuit breaker

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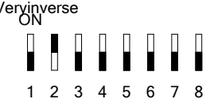
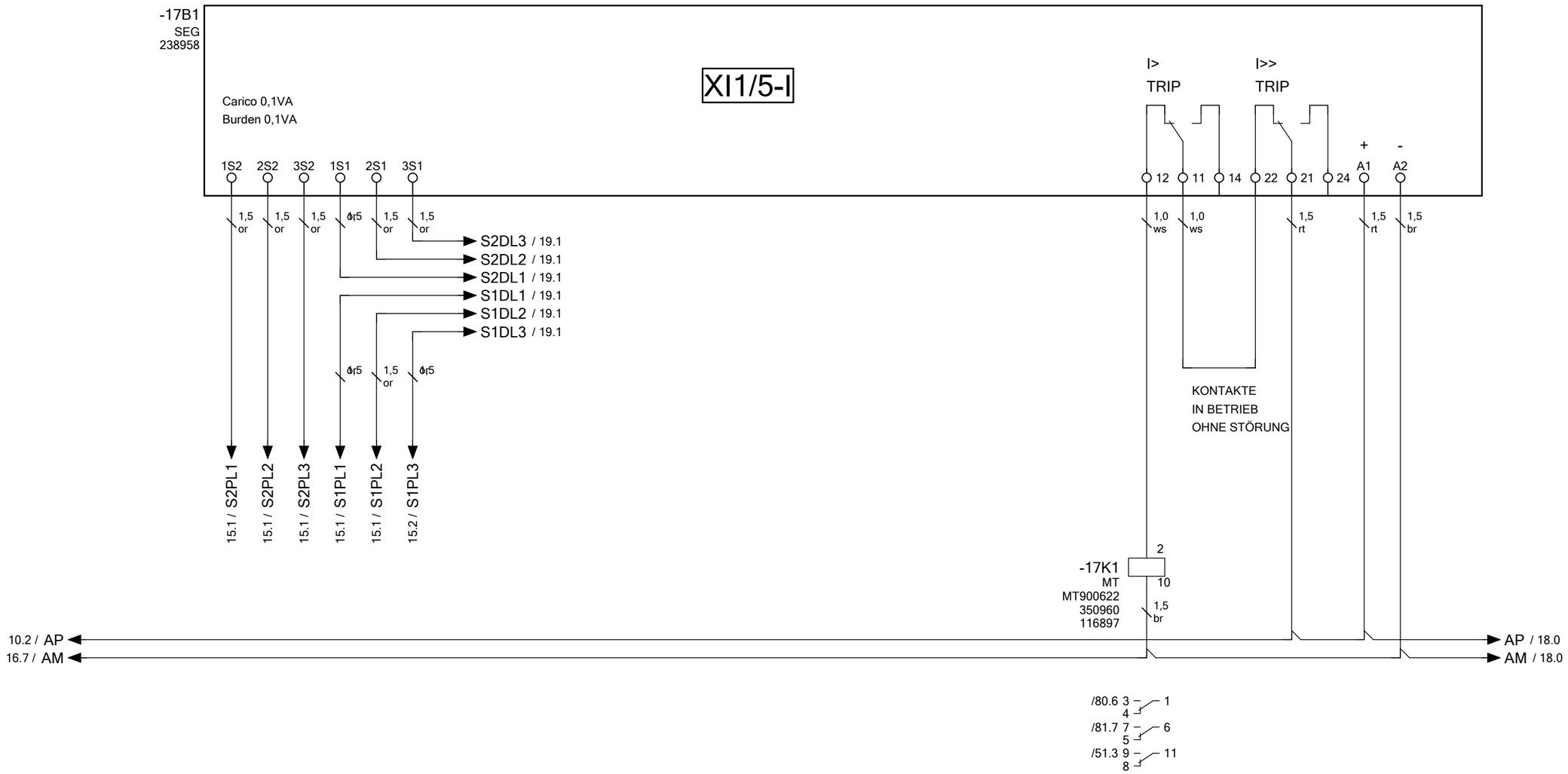
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Disaccoppiamento rete +ST Mains disconnection device +ST	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 16
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_192.emp			

Aggiustamento:
Adjustment:
I> 0,748
tI> 0,6sek
I>> 1,7
tI>> 0,3sek

Linea di sgancio:
Trip characteristic:
Start - Invers
Veryinverse





Corrente alternatore
Generator current

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Rele sovracarico Over current relay	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 17
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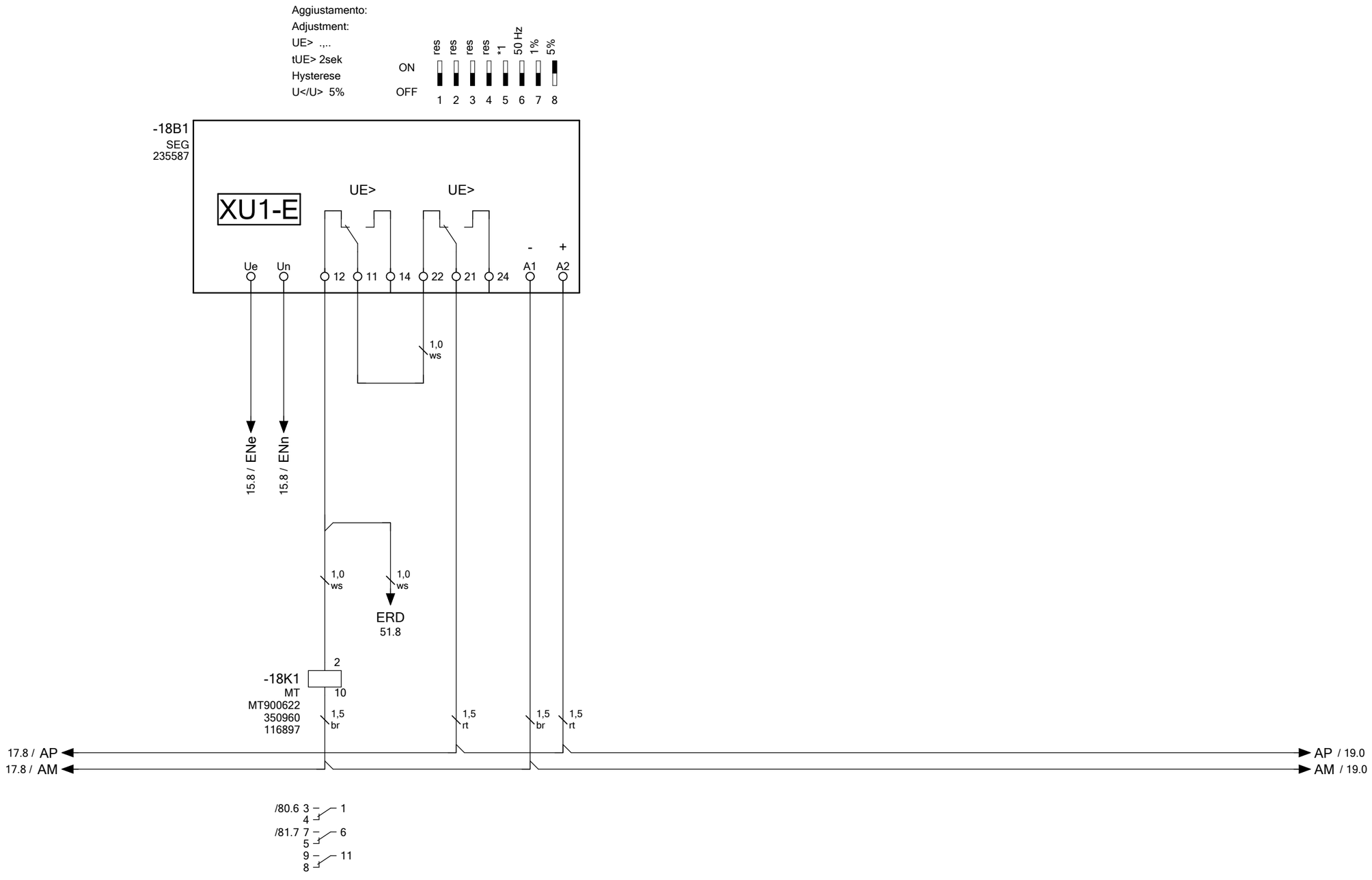

Dispersione a terra Rele
Ground fault Relay

Tensione homopolare 0-30V
Homopolair Voltage 0-30V

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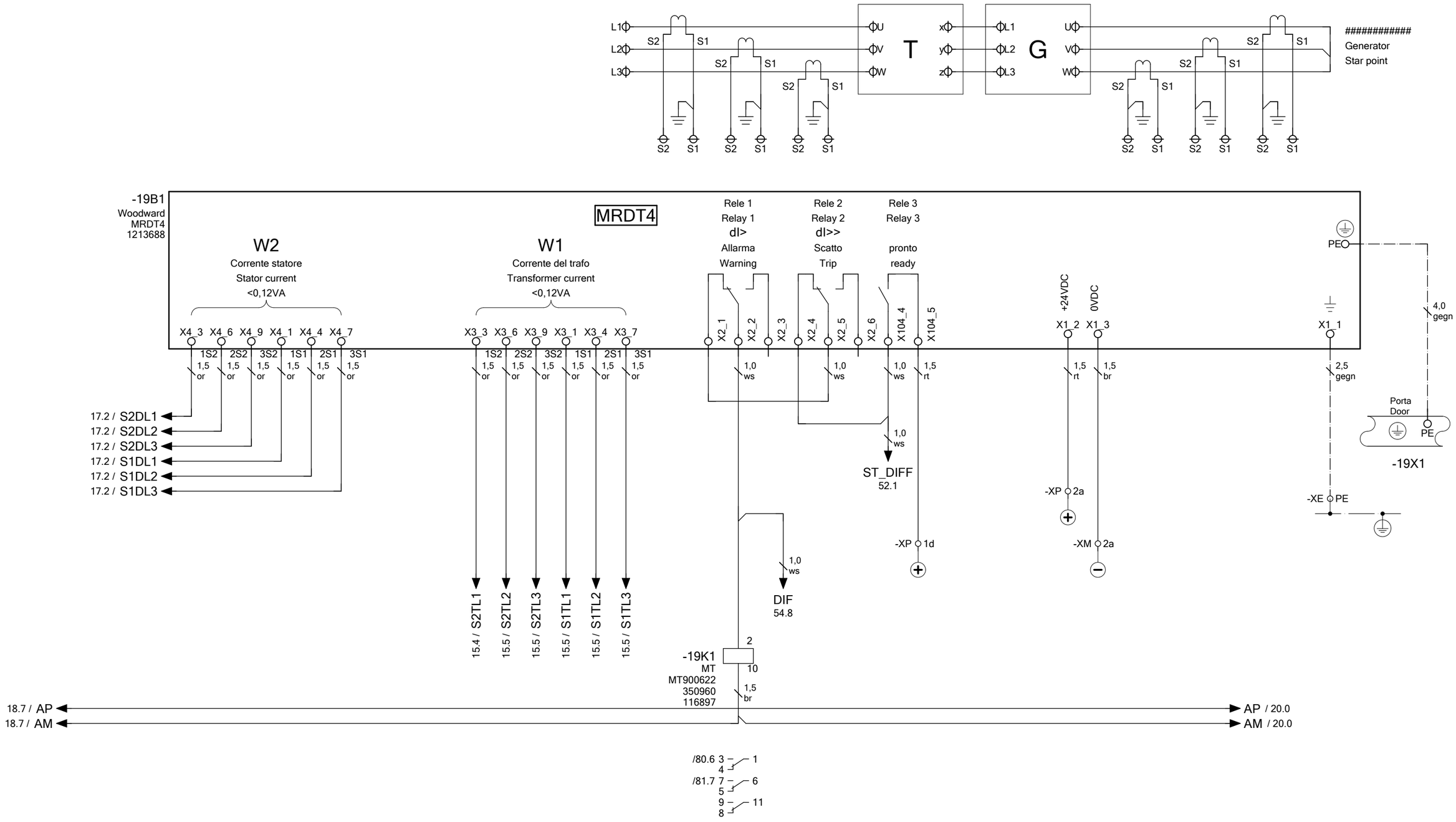
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Dispersione a terra Ground fault	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 18
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_301.emp			



Rele protezione differenziale
Dif protection relay

Protezione differenziale scatto
Dif protection tripped

Corrente statore
Stator current

Corrente del trafo
Transformer current

Alimentazione Rele protezione differenziale
Supply Dif protection relay

Collegamento a terra Carcassa
Grounding Housing

18

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Rele protezione differenziale Dif protection relay	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 19
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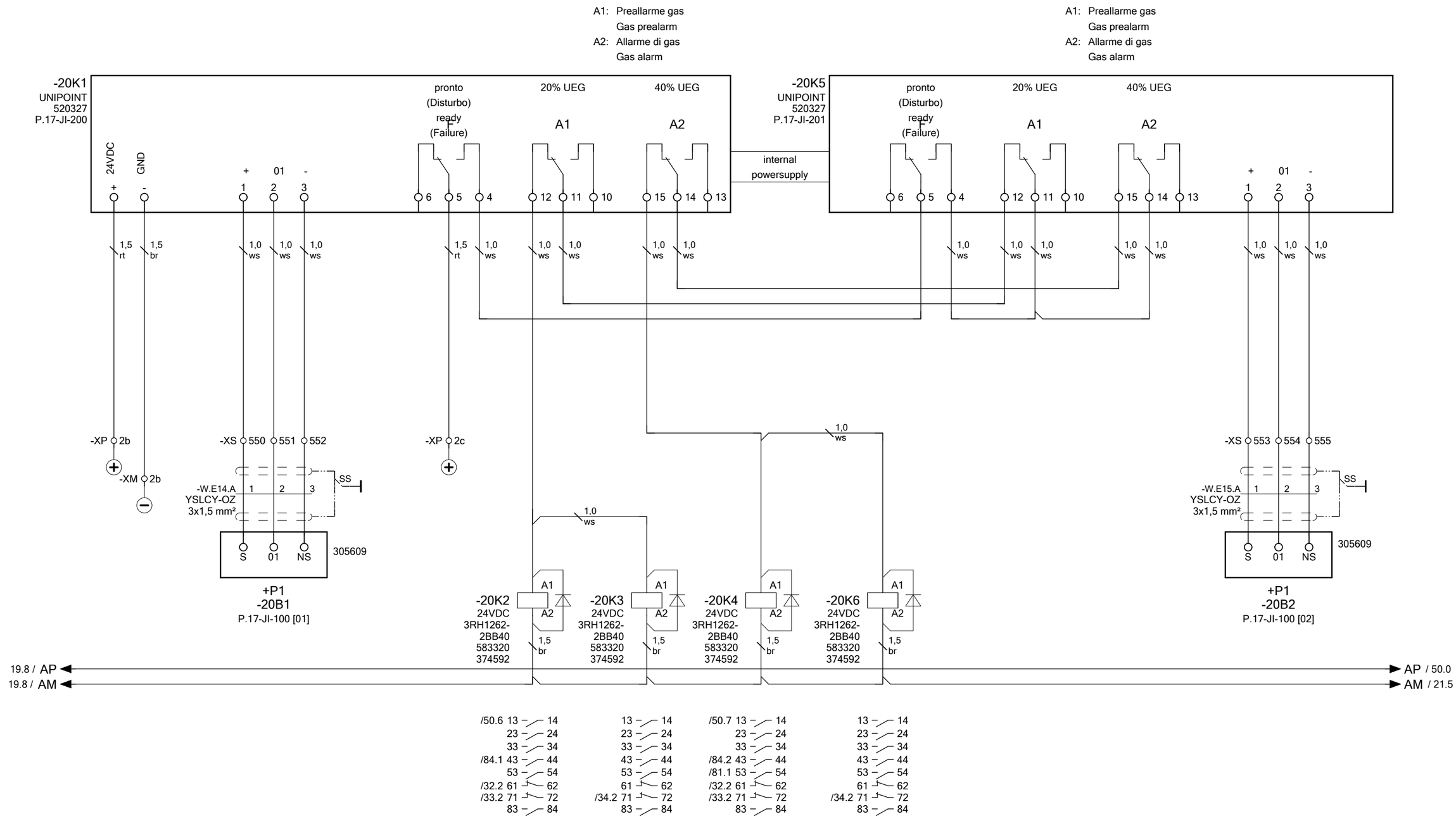

Dispositivo allarme di gas
Gas detecting device

Sensore di gas 1
Gas sensor 1

Dispositivo allarme di gas
Gas detecting device

Dispositivo allarme di gas
Gas detecting device

Sensore di gas 2
Gas sensor 2

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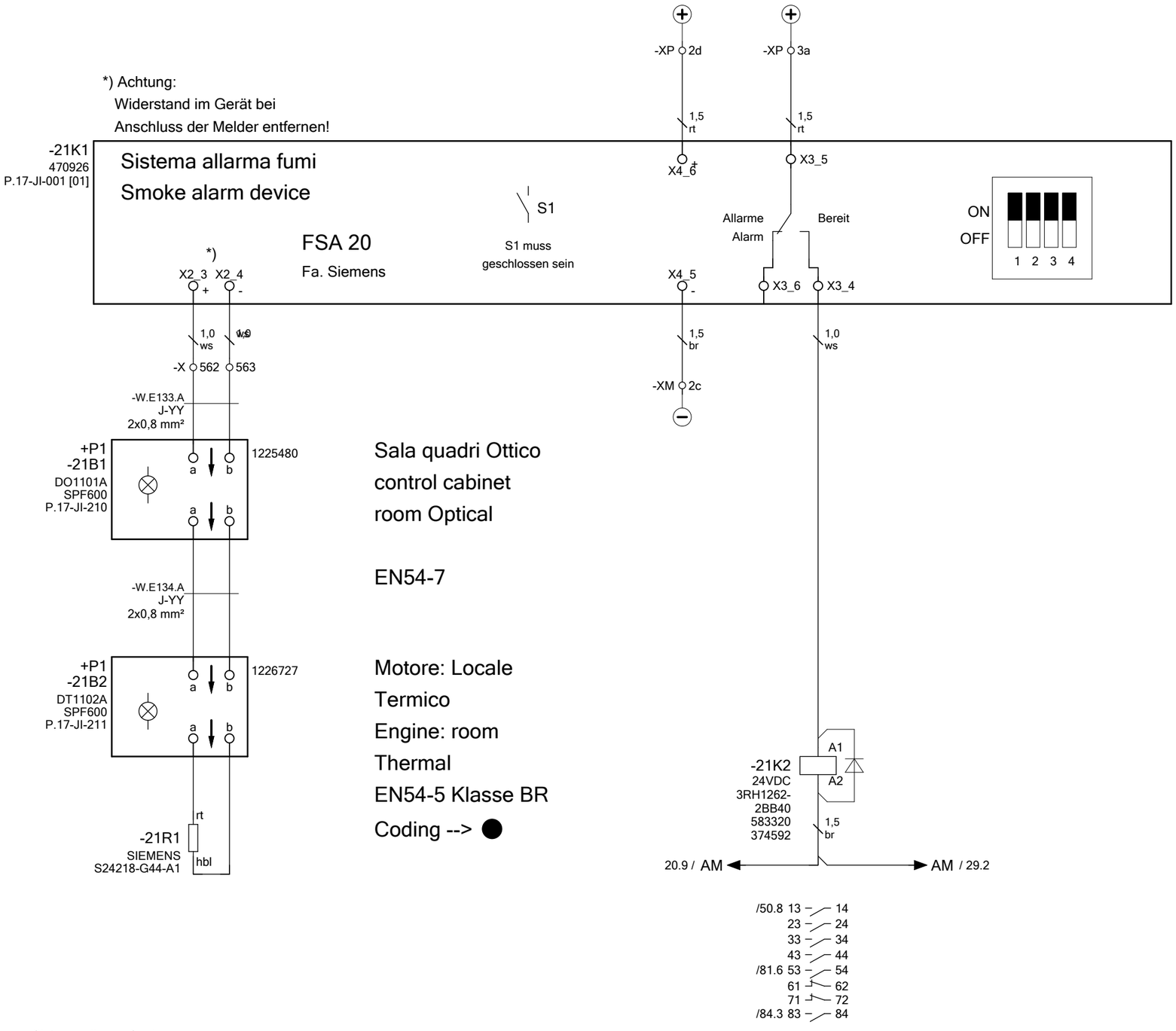
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Dispositivo allarme di gas 2 Sensori di gas Gas detecting device 2 Gas sensors	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 20
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2015KW06	ePLAN electric P8 SGMACRO\A1_322.emp			



Sistema allarma fumi
Smoke alarm device

Sensore fumo
Smoke detector

20

22

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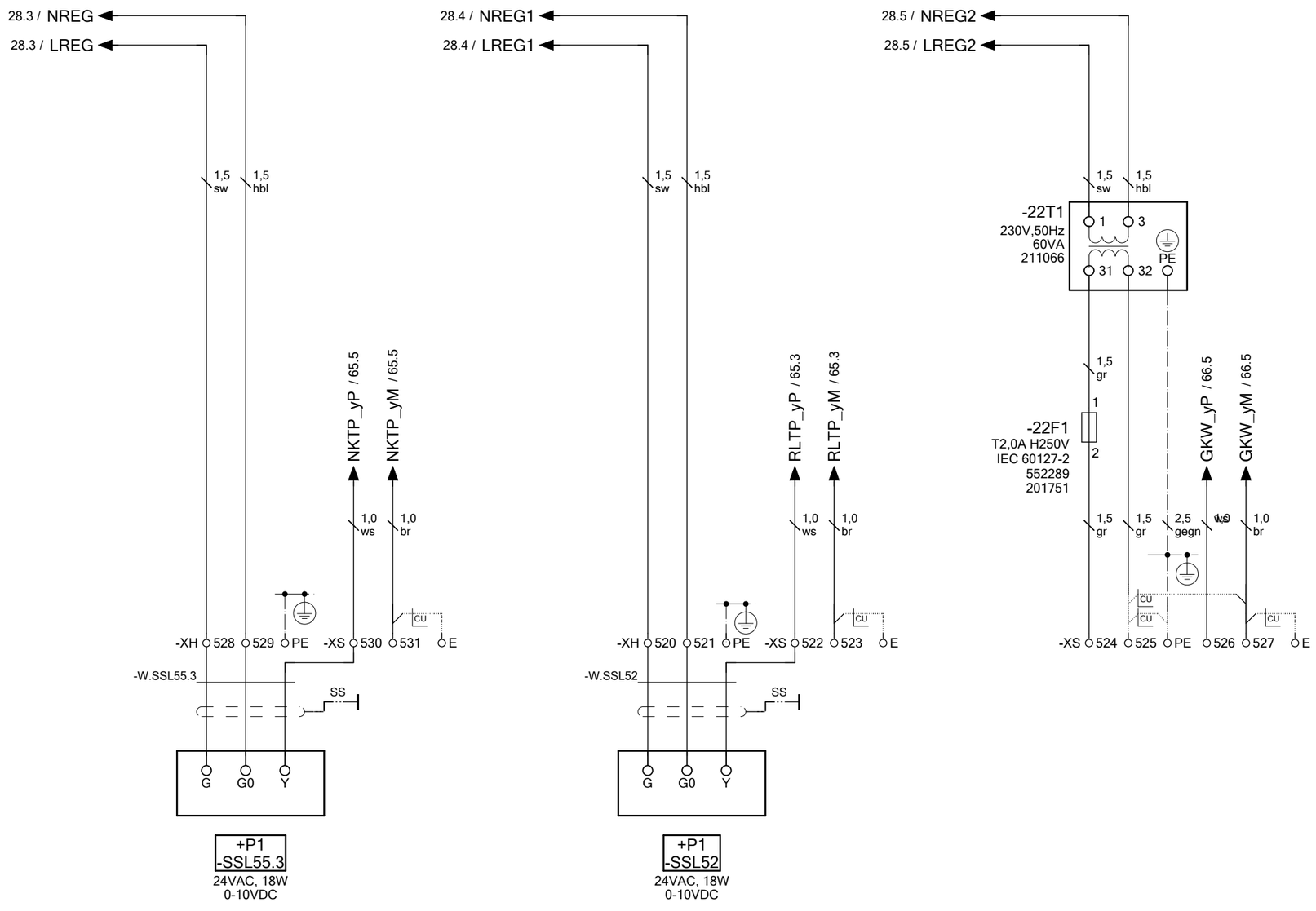
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sistema allarma fumi Smoke alarm device	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 21
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_344.emp			



Trasformatore
Transformer

Valvola di regolazione Circuito di raffreddamento
Regulator valve Cooling circuit

Valvola di ritorno
Water return valve

Riserva
Charge circuit valve

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Valvole di regolazione Regulator valves	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 22
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_372_1.emp			

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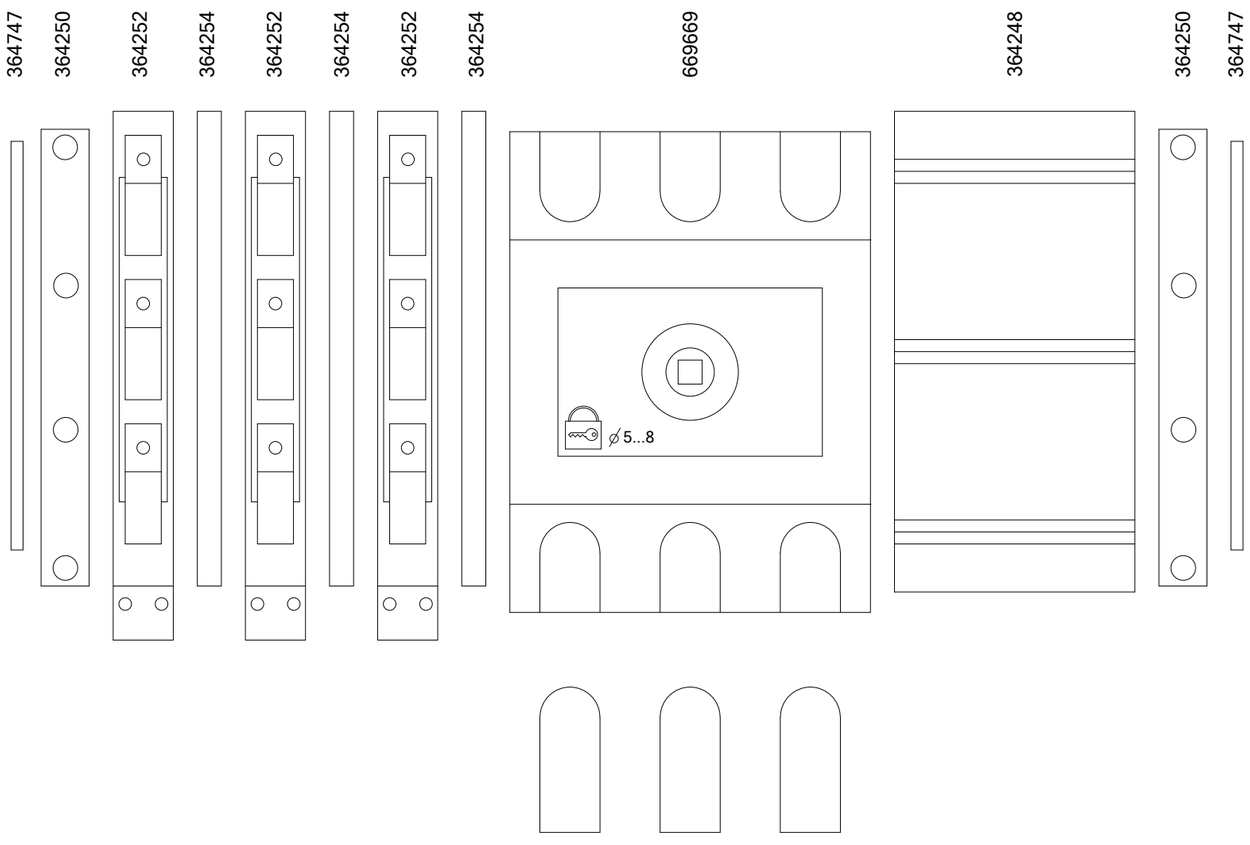

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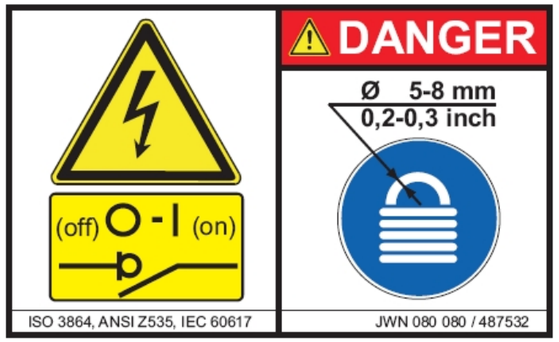
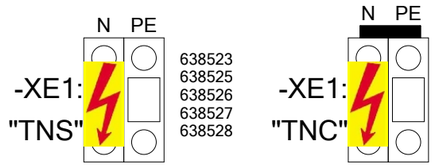
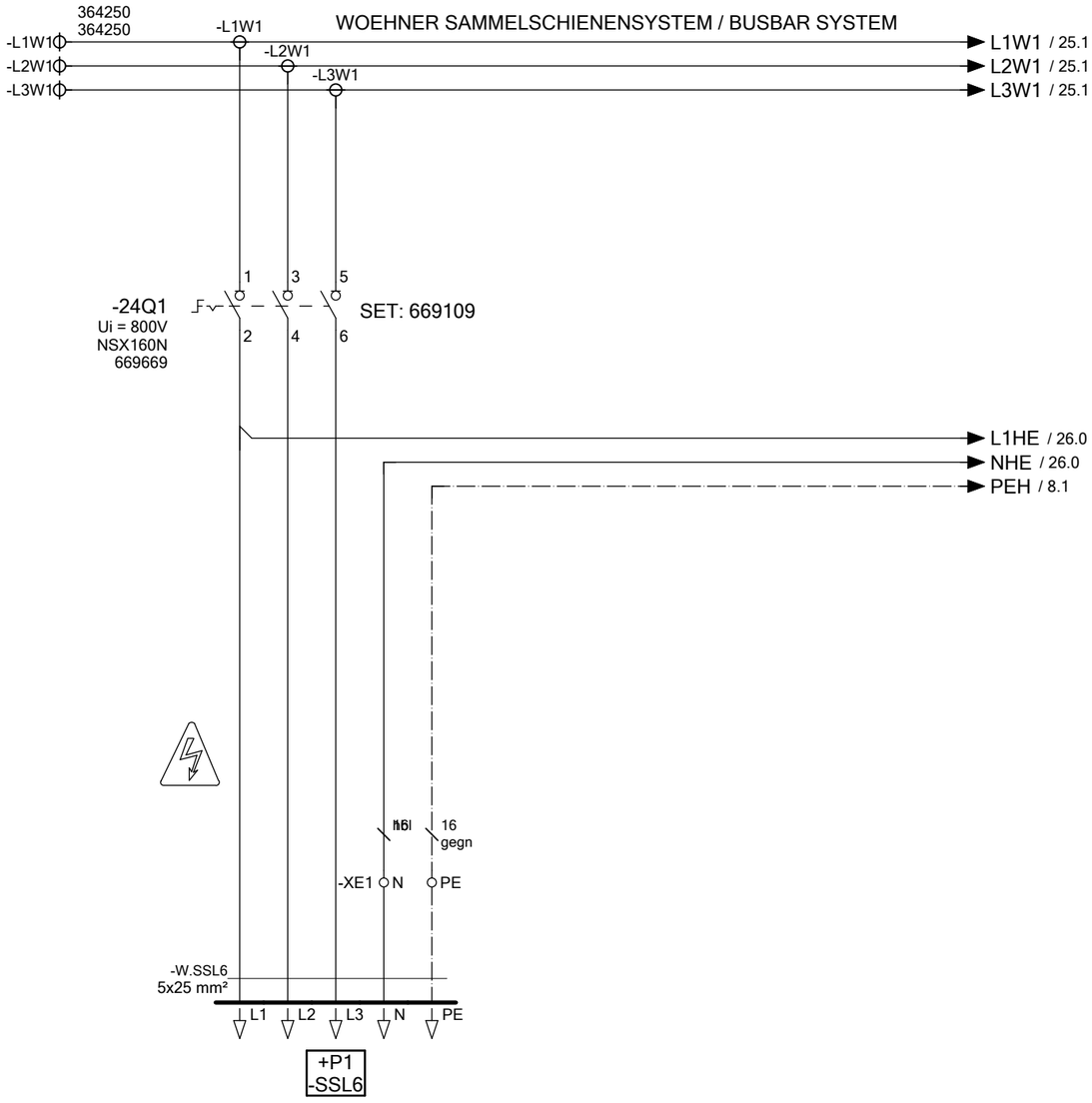
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema interruttore principale 160A Diagram supply disconnecting device 160A	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 23
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_400.emp			

vedi TI-No 2300-0005
see TI-No 2300-0005







Ausiliari Alimentazione
Auxiliaries supply

vedi Pagina: INFORMAZIONI TECNICHE
see Page: TECHNICAL INFORMATION

Fusibile:
Back-up fuse:

vedi Pagina: INFORMAZIONI TECNICHE
see Page: TECHNICAL INFORMATION

Fusibile:
Back-up fuse:

gG 63A / AC 500V / IEC 60269

interruttore principale
Supply disconnecting device

23

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	interruttore principale Supply disconnecting device	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 24
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_410.emp			

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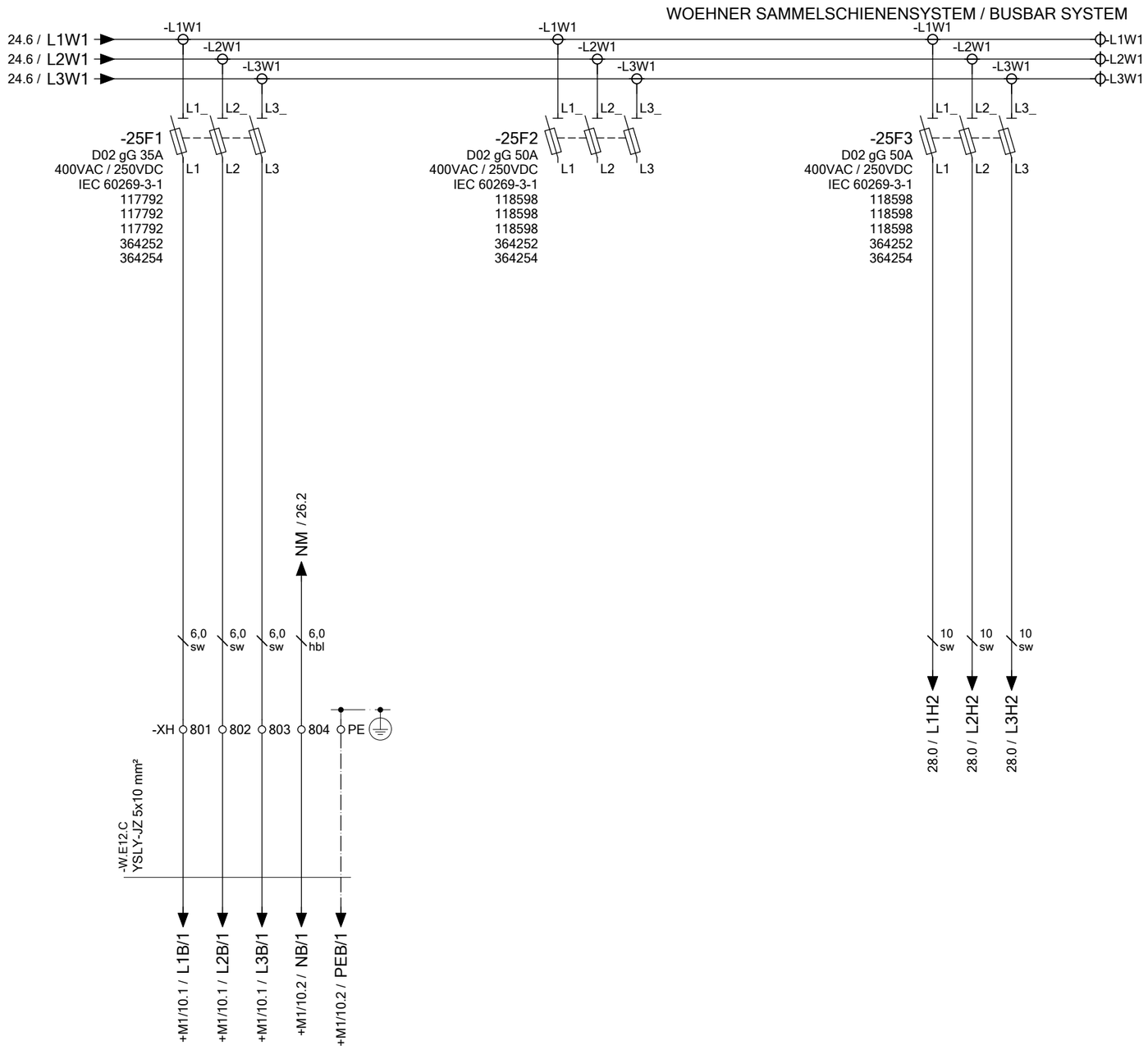

Alimentazione Interfaccia modulo
Supply Module interface

Riserva
Spare

Alimentazione Ausiliari 2
Supply Auxiliaries 2

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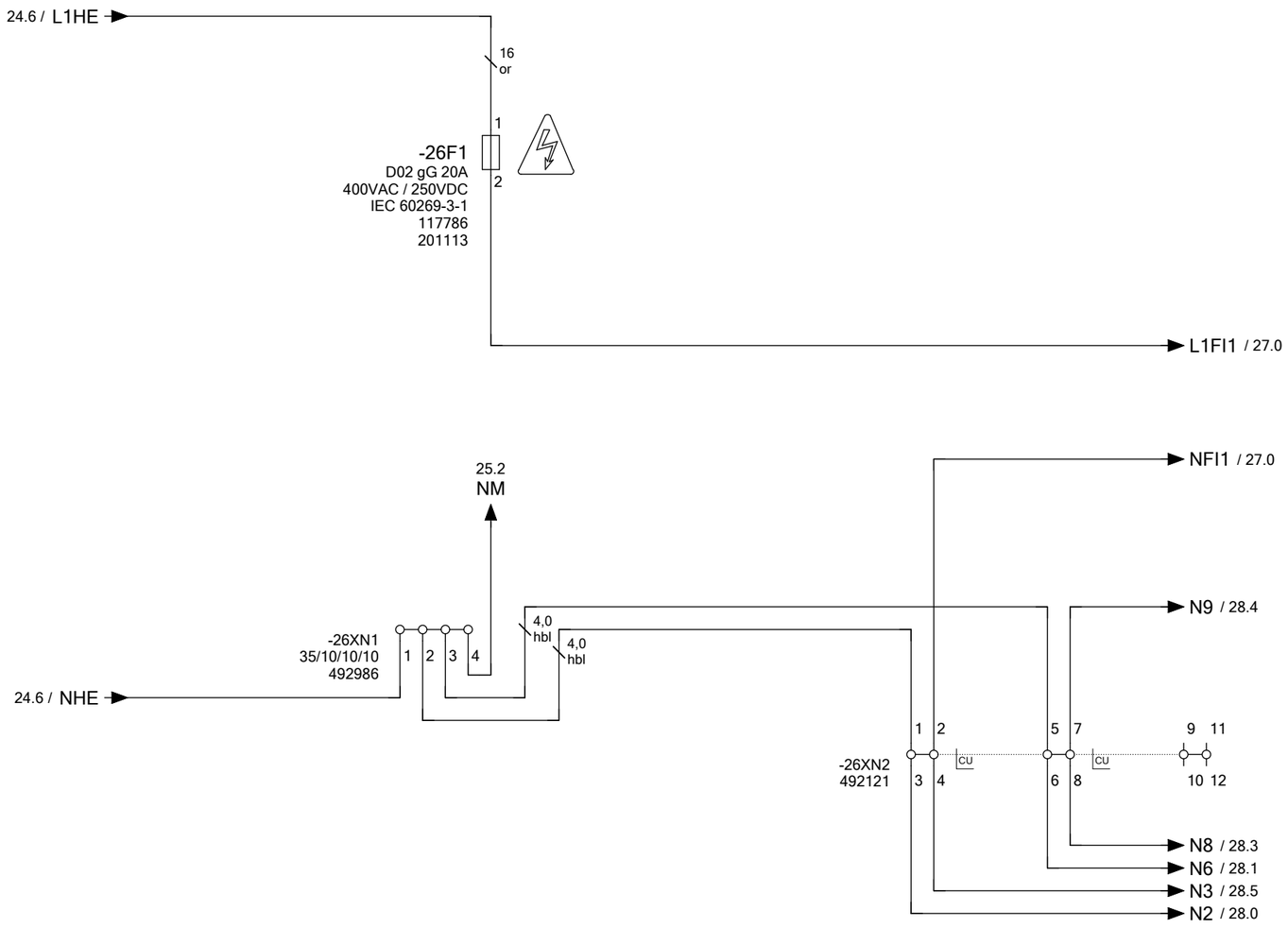
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Fusibiles Alimentazione Ausiliari Fuses Supply Auxiliaries	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 25
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_432.emp			



Fusibile: Illuminazione / Presas
Fuse: Light / Sockets

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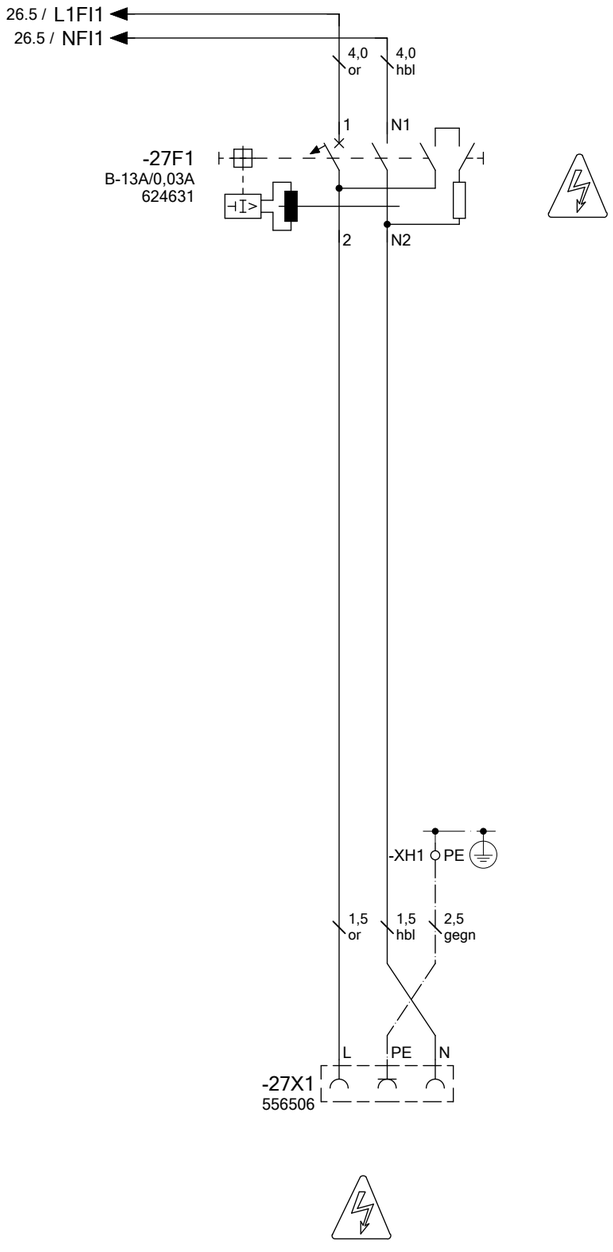

Presa
Socket

26

28

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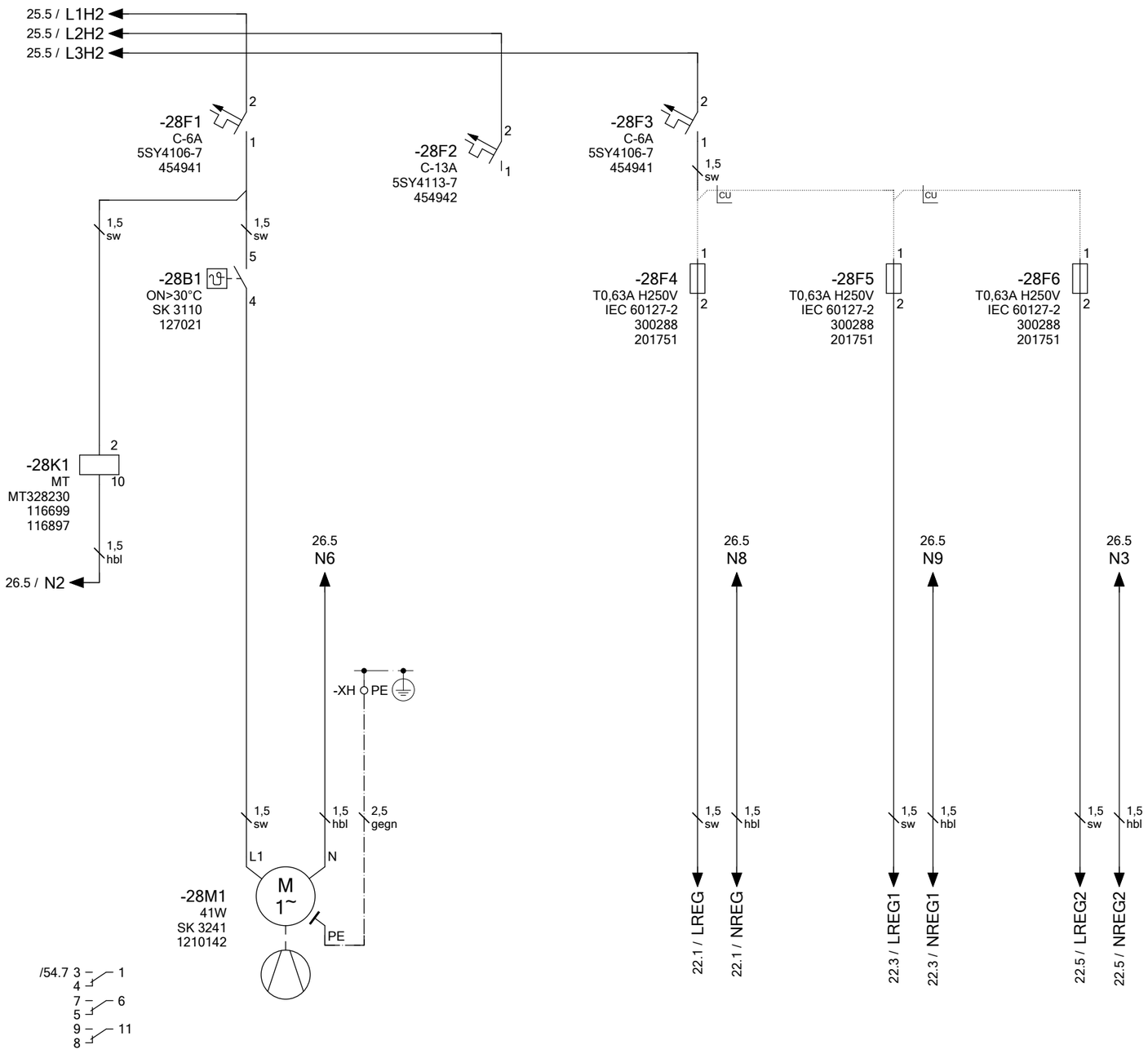
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Presas Sockets	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 27
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_500.emp			



Ventilatore del quadro
Panel fan

Riserva
Spare

Alimentazione Valvola 3 vie
Supply 3-way valve

Tensione OK
Voltage OK

Serranda aria di aliment./ Serrande aria viziata
Fresh air louvers/ Air outlet louvers

Serranda aria di aliment./ Serrande aria viziata
Fresh air louvers/ Air outlet louvers

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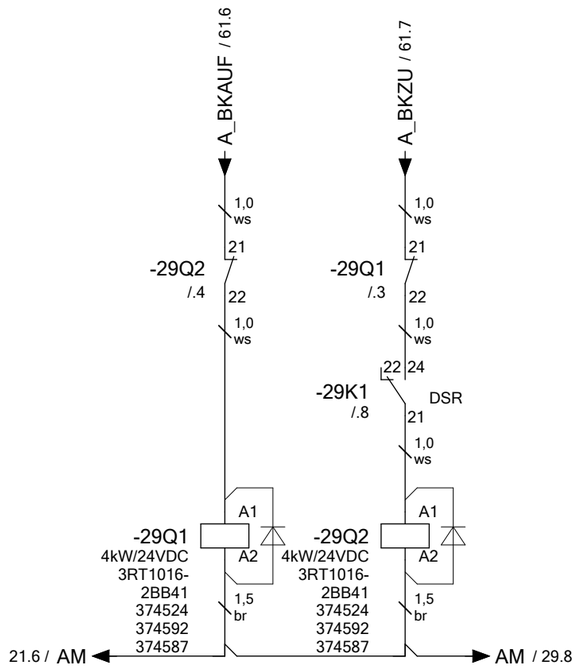
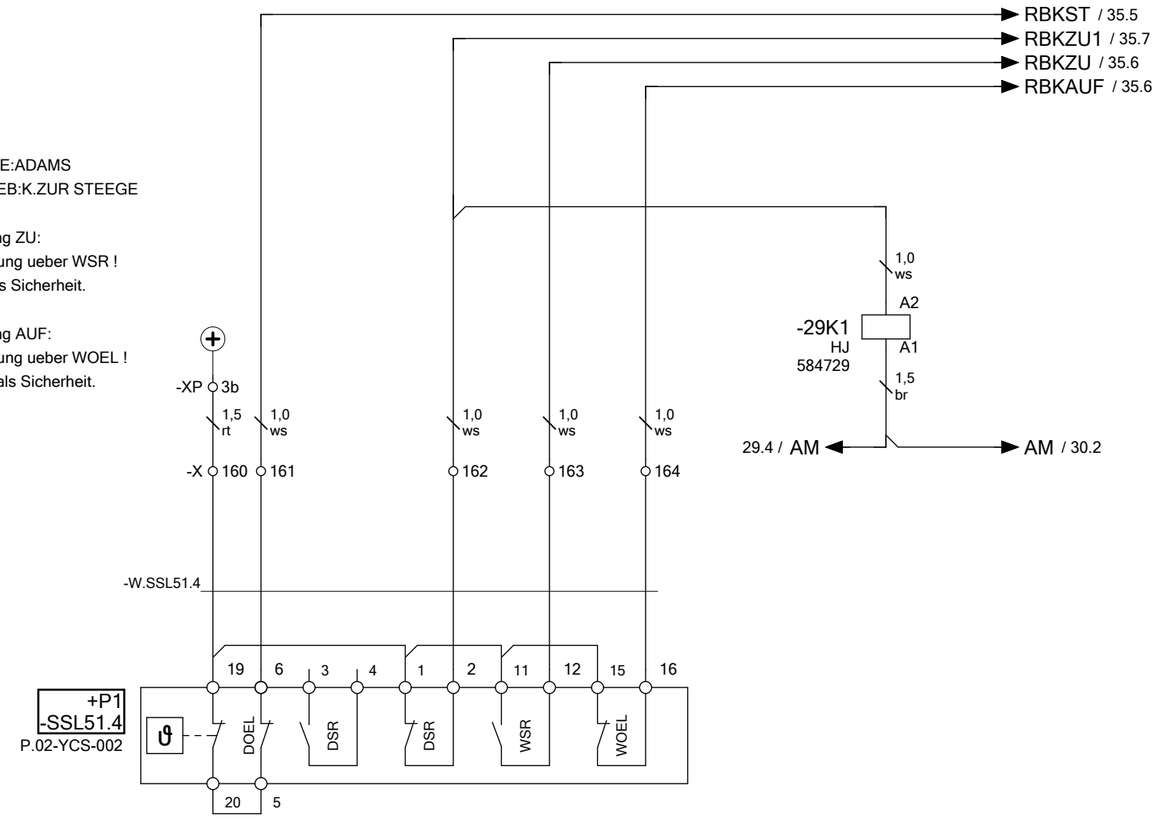
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Alimentazione Ausiliari Supply Auxiliaries	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 28
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_532.emp			



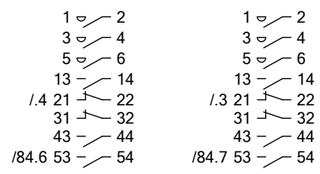
KLAPPE:ADAMS
ANTRIEB:K.ZUR STEEGE

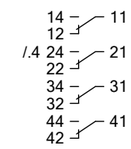
Richtung ZU:
Abstellung ueber WSR !
DSR als Sicherheit.

Richtung AUF:
Abstellung ueber WOEL !
DOEL als Sicherheit.



Servomotore: Fa. Karl zur Steege
Servo motor: Type SG 07 / 36 sec.
Handrad für Notbedienung
IP67





Segnali Valvola bypass
Signals Bypass flap

28

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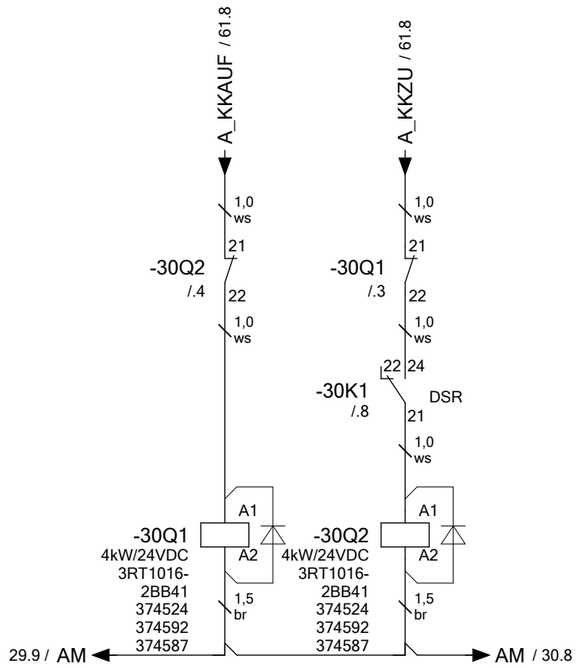
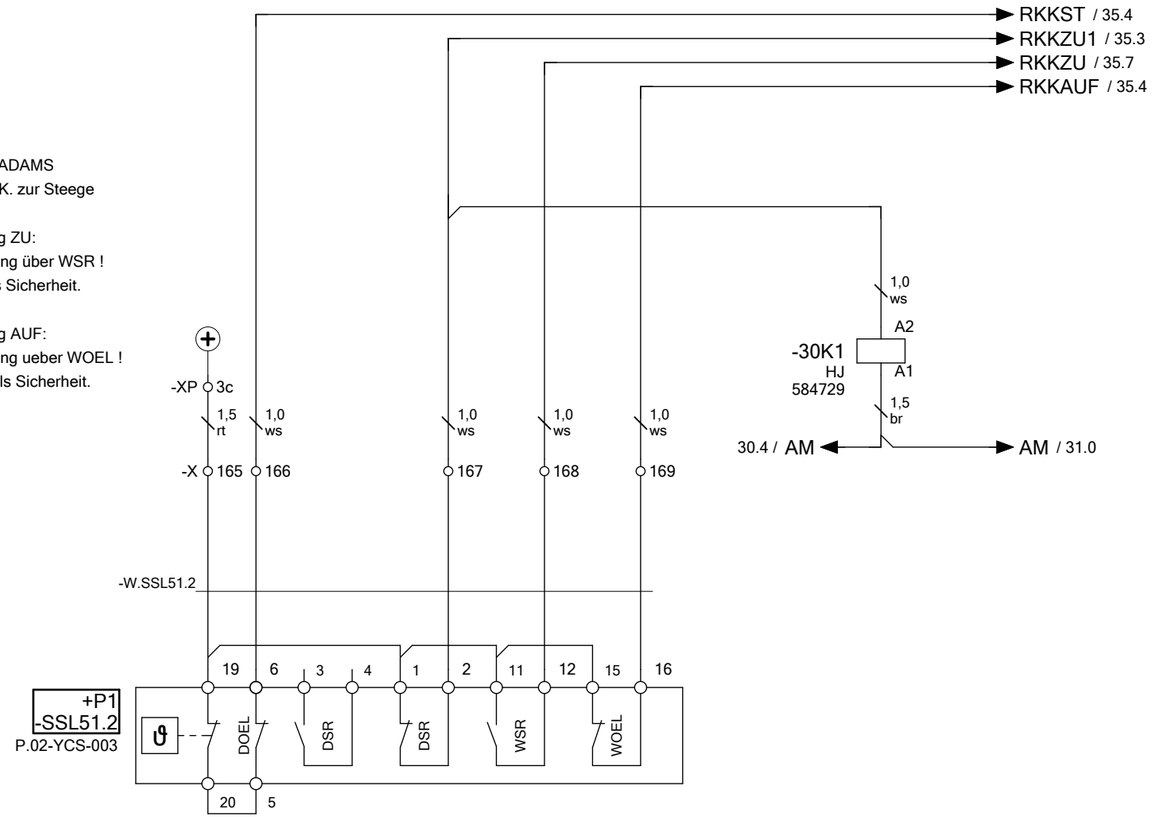
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Valvola bypass Bypass flap	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 29
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_640.emp			



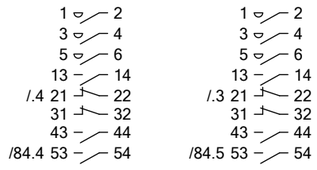
Klappe:ADAMS
Antrieb:K. zur Steege

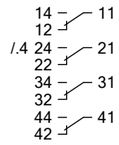
Richtung ZU:
Abstellung über WSR !
DSR als Sicherheit.

Richtung AUF:
Abstellung ueber WOEL !
DOEL als Sicherheit.



Servomotore: Fa. Karl zur Steege
Servo motor: Type SG 07 / 36 sec.
Handrad für Notbedienung
IP67





Segnali Valvola caldaia
Signals Boiler flap

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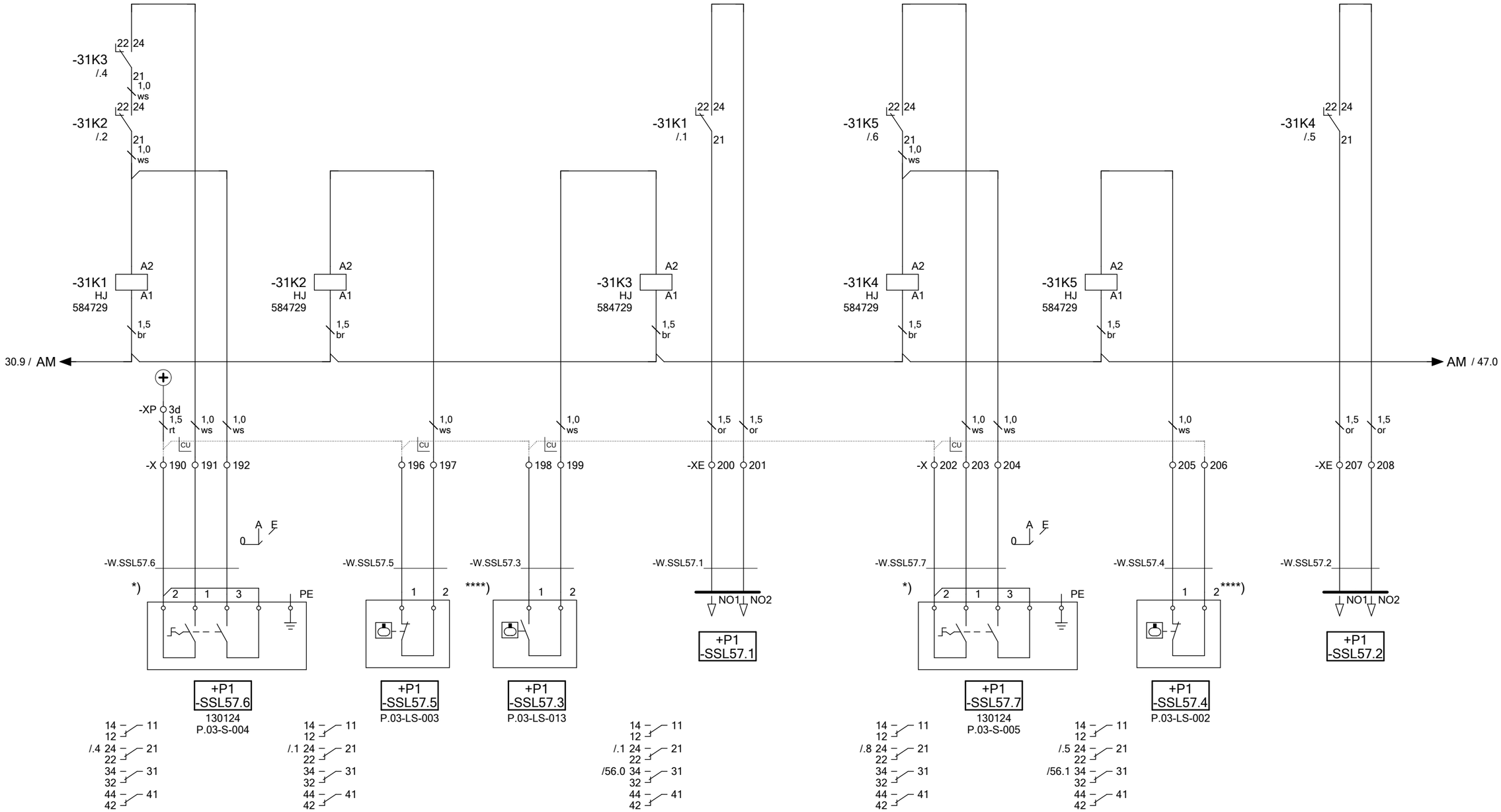
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Valvola caldaia Boiler flap	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 30
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_650.emp			

*) da installare sullo skid olio esterno
Local

****) Contatto quando il serbatoio è vuoto
Contact if tank is empty



Interruttore Pompa olio fresco
Switch Freshoil pump

Olio fresco massima
Freshoil max

Olio fresco min
Freshoil min

Richiesta Pompa olio fresco
Demand Freshoil pump

Interruttore Olio usato
Switch Waste oil

Serbatoio olio usato massima
Waste oil tank max

Richiesta Pompa olio usato
Demand Waste oil pump

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Comando: Pompa olio fresco / Pompa olio usato Control: Freshoil pump / Waste oil pump	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 31
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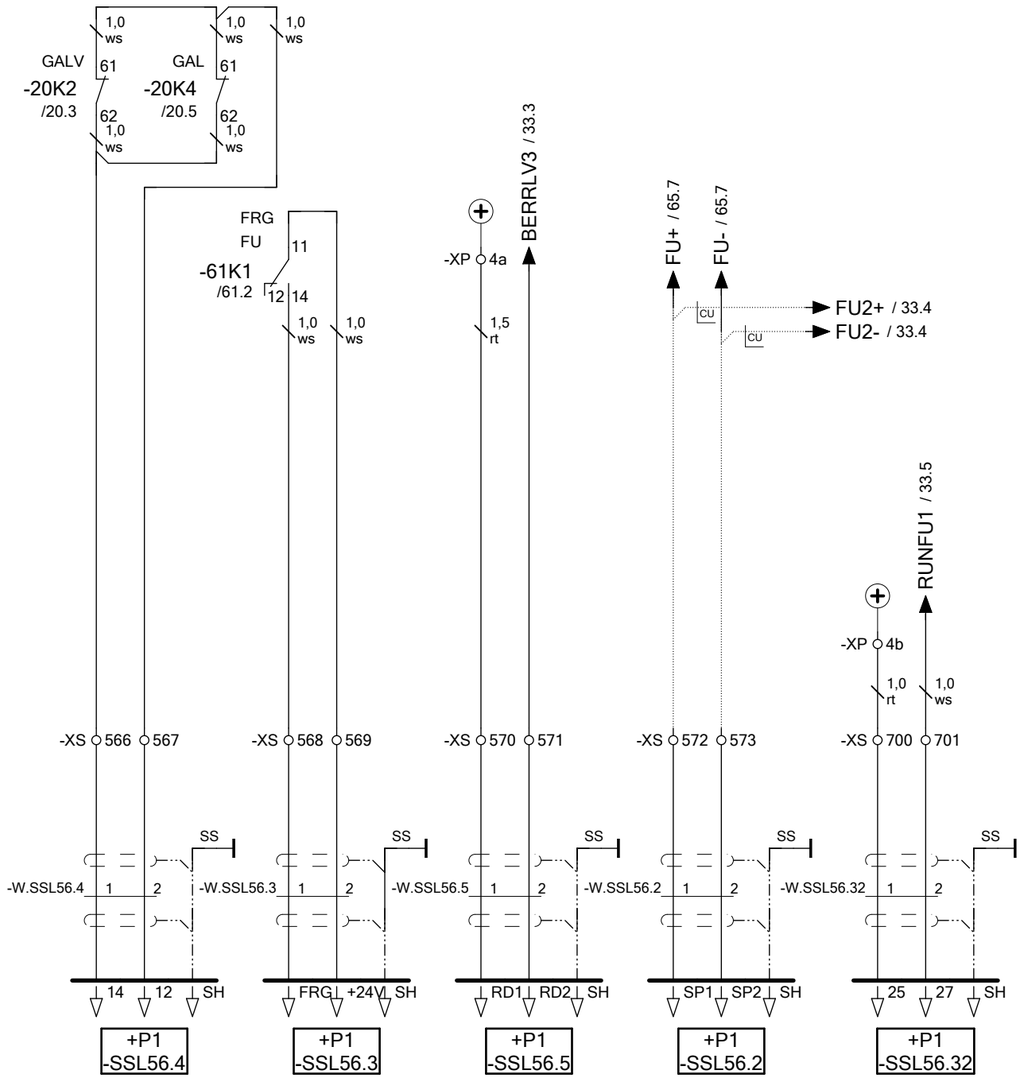

Richiesta Giri massima
Demand Speed max

Ventilazione sala macchina disturbo
Engine room ventilation failure

Servizio: Ventilazione sala macchina
Operation: Engine room ventilation

Consenso Convertitore frequenza
Release Frequency converter

Valore nominale Convertitore frequenza
Set point Frequency converter

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Ventilatore ambiente 1 Room fans	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 32
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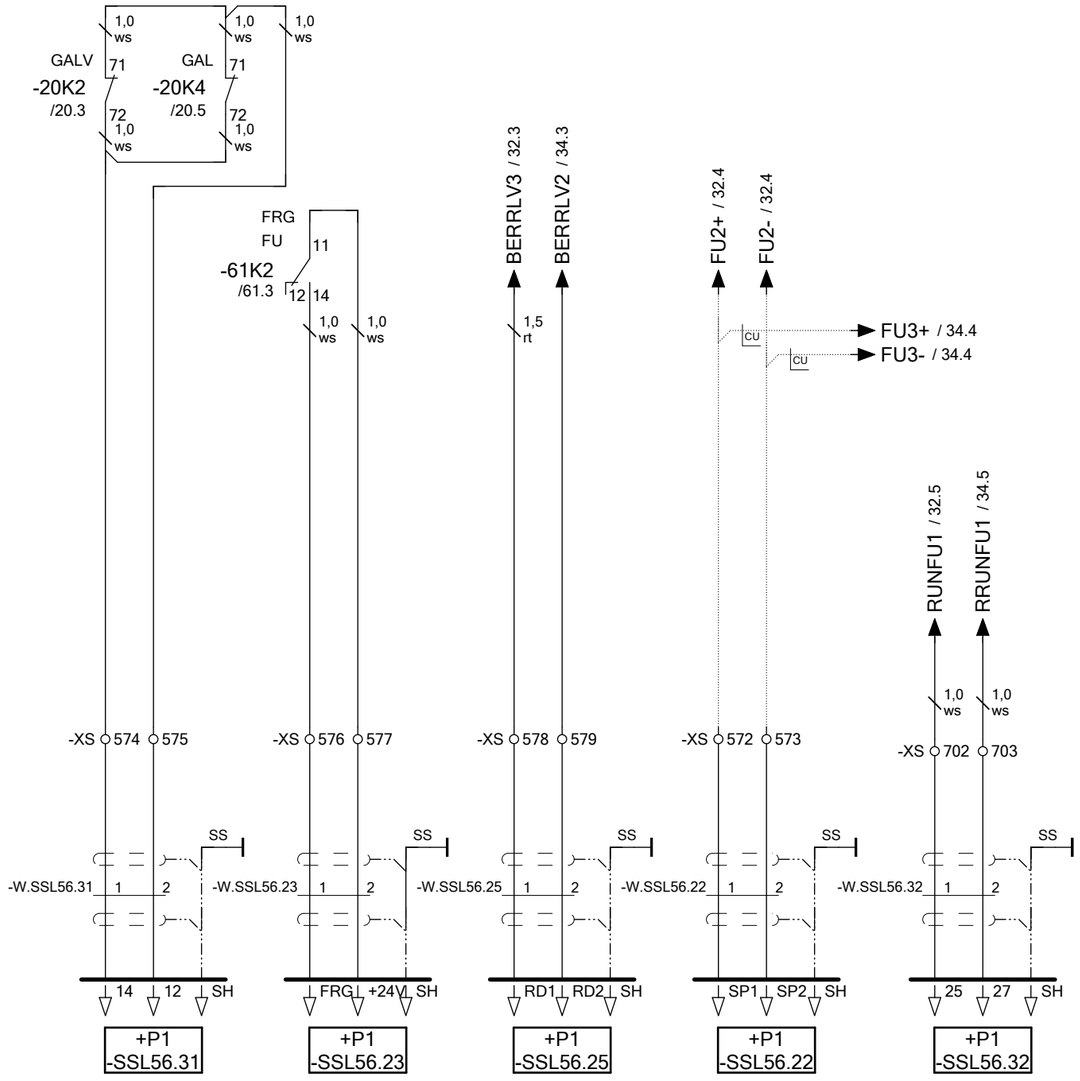

Richiesta Giri massima
Demand Speed max

Ventilazione sala macchina disturbo
Engine room ventilation failure

Servizio: Ventilazione sala macchina
Operation: Engine room ventilation

Consenso Convertitore frequenza
Release Frequency converter

Valore nominale Convertitore frequenza
Set point Frequency converter

Collegamento equipotenziale
Equipotential bonding

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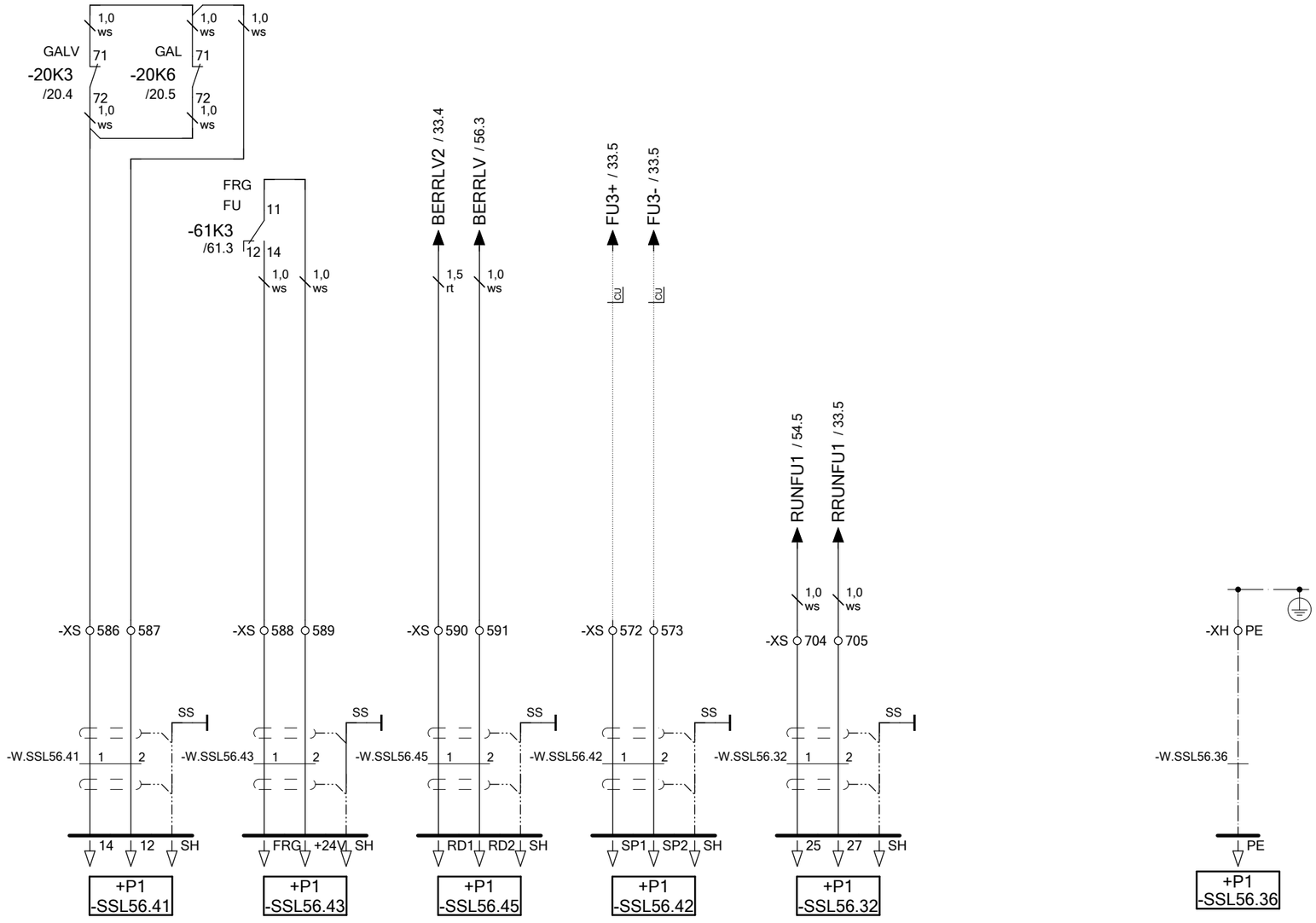
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Ventilatore ambiente 2 Room fan 2	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 33
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2015KW06	ePLAN electric8 SGMACRO\A1_772_1.emp			



Richiesta Giri massima
Demand Speed max

Ventilazione sala macchina disturbo
Engine room ventilation failure

Servizio: Ventilazione sala macchina
Operation: Engine room ventilation

Consenso Convertitore frequenza
Release Frequency converter

Valore nominale Convertitore frequenza
Set point Frequency converter

Collegamento equipotenziale
Equipotential bonding

33

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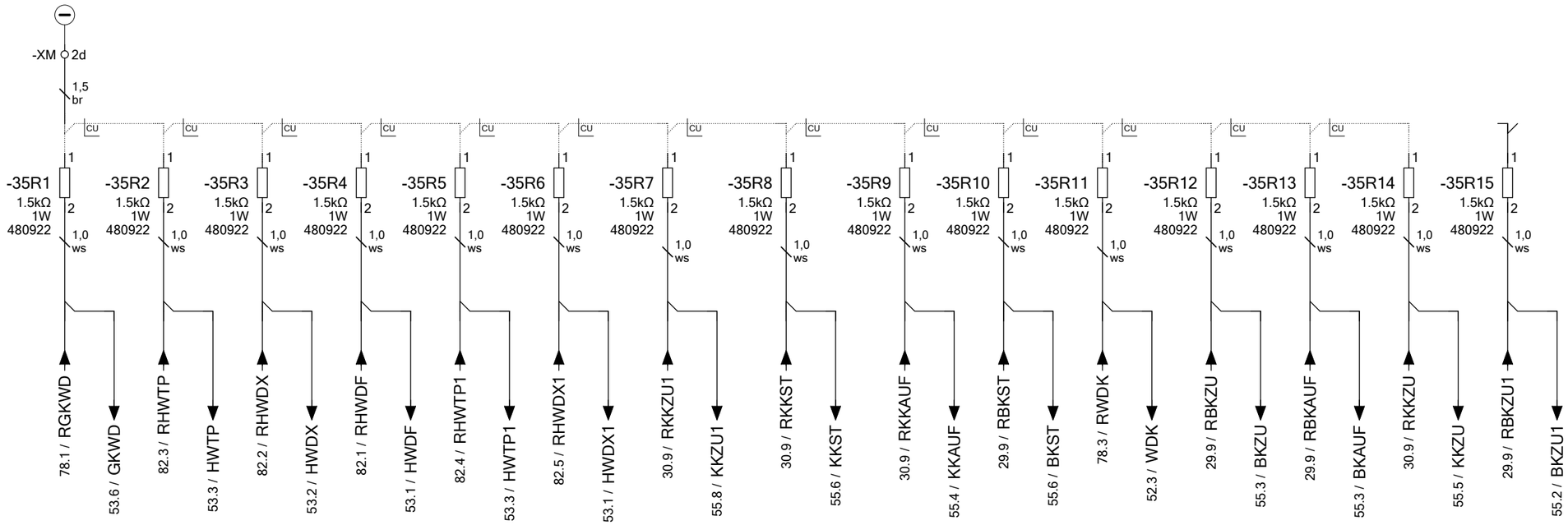

Resistenza - Digital Ingresso
Resistor - Digital Input

34

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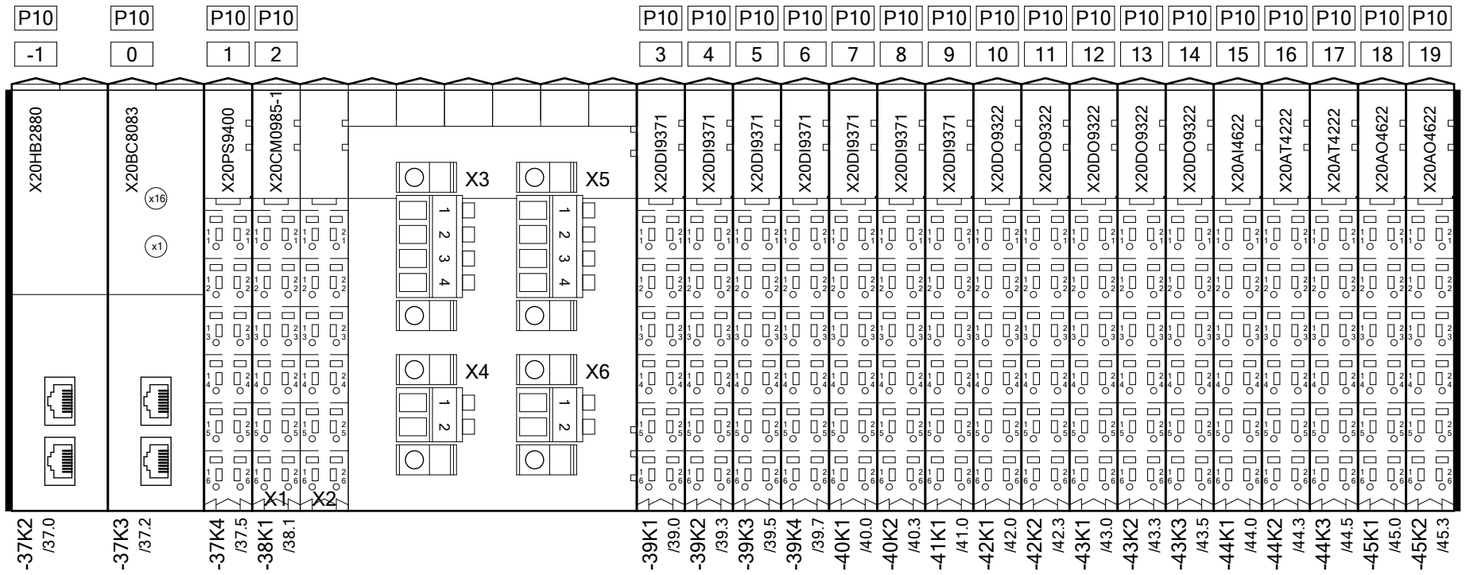

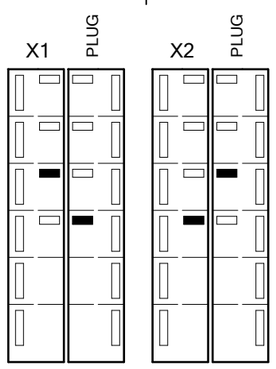

CODING
MMU-SYNC

BUS-HUB

BUS-CONTROLLER

Modulo di alimentazione
Supply module
Convertitore di misurazione e protezione
Multi measuring and monitoring device

Digital Ingresso
Digital Input
Digital Ingresso
Digital Input
Digital Ingresso
Digital Input
Digital Ingresso
Digital Input
Digital Ingresso
Digital Input
Digital Ingresso
Digital Input
Digital Ingresso
Digital Input
Digital Uscita
Digital Output
Digital Uscita
Digital Output
Digital Uscita
Digital Output
Digital Uscita
Digital Output
Digital Uscita
Digital Output
Analog Ingresso
Analog Input
Analog Ingresso
Analog Input
Analog Ingresso
Analog Input
Analog Uscita
Analog Output
Analog Uscita
Analog Output

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 36
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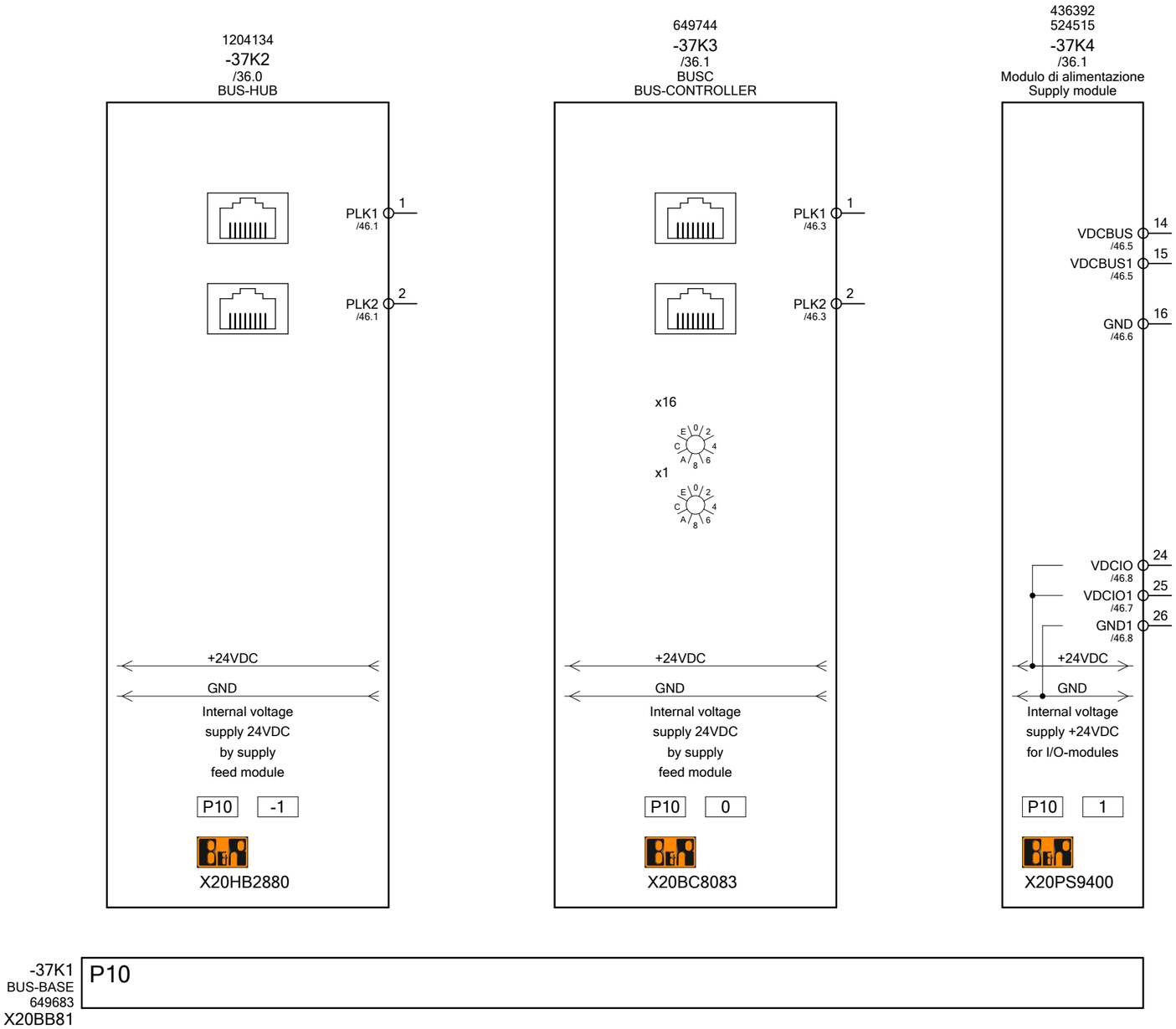

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38

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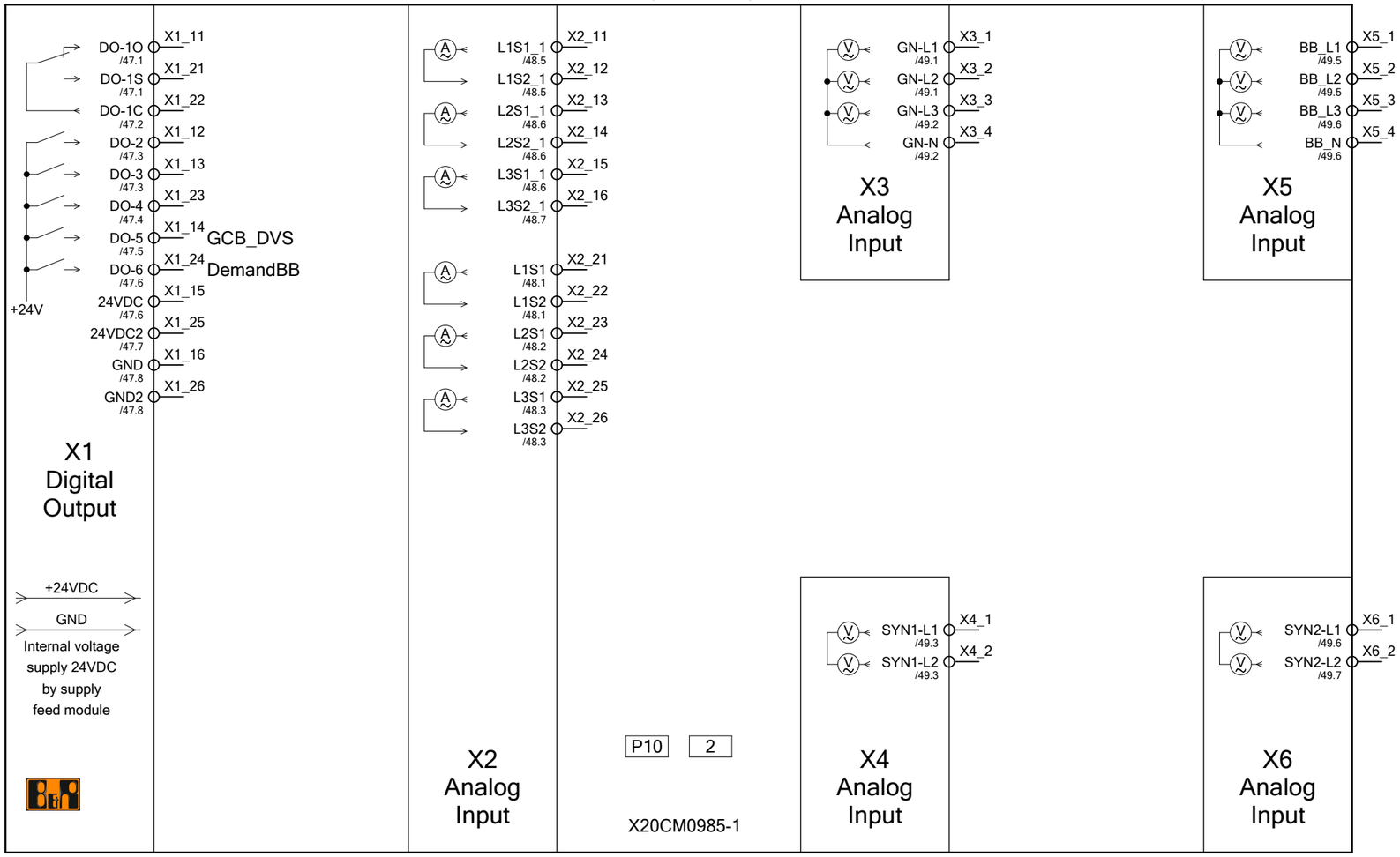
521463
521460
512471
512470
436392
436392
1211730

-38K1

/36.1

MMD

Convertitore di misurazione e protezione
Multi measuring and monitoring device



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Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_812_3.emp			

436392
436351
436361
-39K1
/36.3
Digital Ingresso
Digital Input

DI-1 /50.1	11	
DI-2 /50.1	21	
DI-3 /50.2	12	MCB_On
DI-4 /50.3	22	GCB_On
DI-5 /50.3	13	Req_PowMod
DI-6 /50.4	23	TBMode
DI-7 /50.5	14	
DI-8 /50.6	24	
DI-9 /50.6	15	GasPreAlarm
DI-10 /50.7	25	GasAlarm
DI-11 /50.8	16	FireAlarm
DI-12 /50.8	26	RelAux

GND

+24VDC
GND
Internal voltage supply 24VDC by supply feed module

P10 3

X20DI9371

436392
436351
436361
-39K2
/36.3
Digital Ingresso
Digital Input

DI-1 /51.1	11	DemEngOpExt
DI-2 /51.1	21	GCB_Off
DI-3 /51.2	12	GCB_Rdy
DI-4 /51.3	22	GCB_Rac
DI-5 /51.3	13	OlShortCirc
DI-6 /51.4	23	GCB_SM1
DI-7 /51.5	14	GCB_SM2
DI-8 /51.6	24	
DI-9 /51.6	15	
DI-10 /51.7	25	
DI-11 /51.8	16	I_MMD_LimHi
DI-12 /51.8	26	GndFailure

GND

+24VDC
GND
Internal voltage supply 24VDC by supply feed module

P10 4

X20DI9371

436392
436351
436361
-39K3
/36.3
Digital Ingresso
Digital Input

DI-1 /52.1	11	EarthCB_Off
DI-2 /52.1	21	I_Diff
DI-3 /52.2	12	TransformerWarning
DI-4 /52.3	22	Pr_CCircuit_Lo
DI-5 /52.3	13	
DI-6 /52.4	23	
DI-7 /52.5	14	
DI-8 /52.6	24	
DI-9 /52.6	15	
DI-10 /52.7	25	
DI-11 /52.8	16	
DI-12 /52.8	26	

GND

+24VDC
GND
Internal voltage supply 24VDC by supply feed module

P10 5

X20DI9371

436392
436351
436361
-39K4
/36.3
Digital Ingresso
Digital Input

DI-1 /53.1	11	Pr_HW_Hi1
DI-2 /53.1	21	Flow_HW_Lo
DI-3 /53.2	12	Pr_HW_Hi
DI-4 /53.3	22	T_HW_Hi
DI-5 /53.3	13	T_HW_Hi1
DI-6 /53.4	23	SafetyLoop_EmStop
DI-7 /53.5	14	SafetyLoop_HWC
DI-8 /53.6	24	DemFlair
DI-9 /53.6	15	Pr_ChC_Lo
DI-10 /53.7	25	GT_GC_Fail
DI-11 /53.8	16	LineCB_On
DI-12 /53.8	26	MnsOk

GND

+24VDC
GND
Internal voltage supply 24VDC by supply feed module

P10 6

X20DI9371

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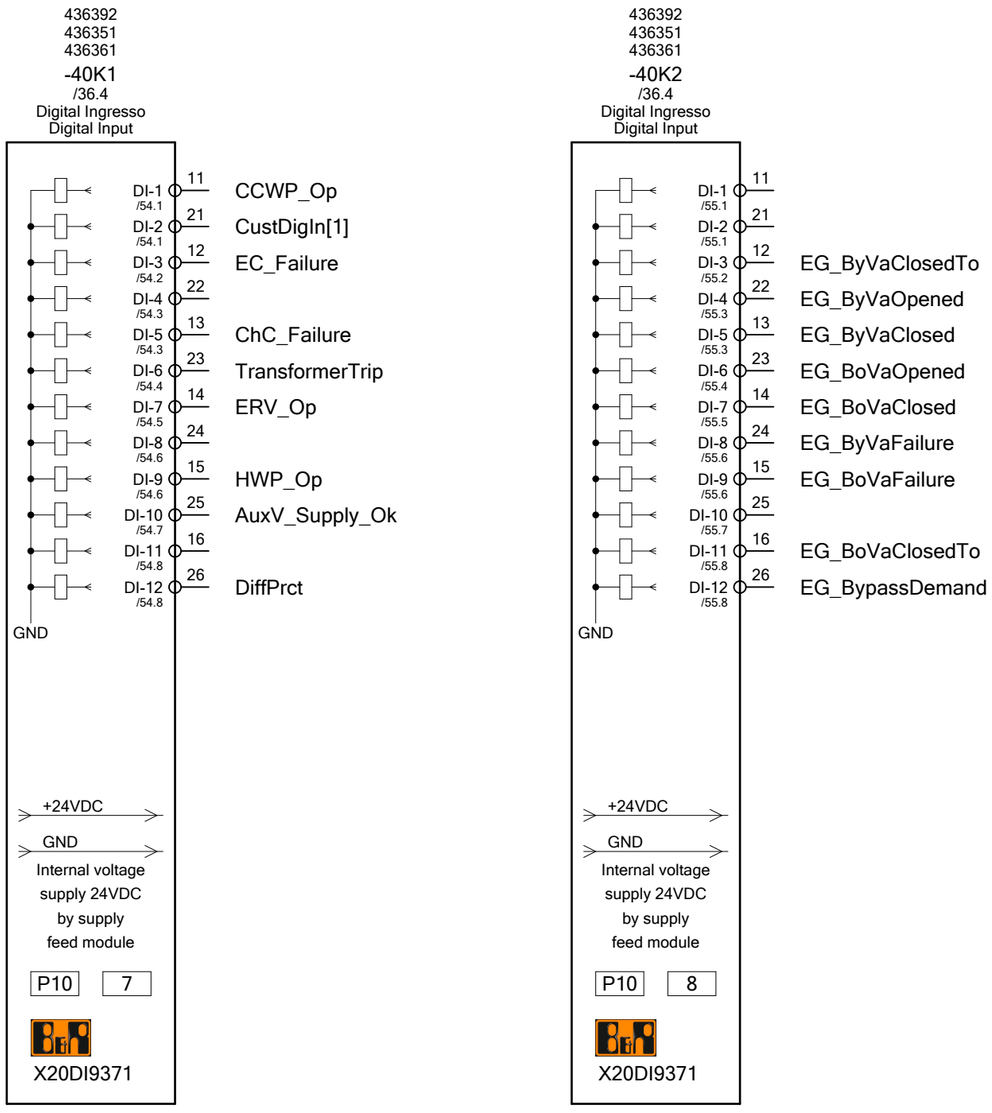

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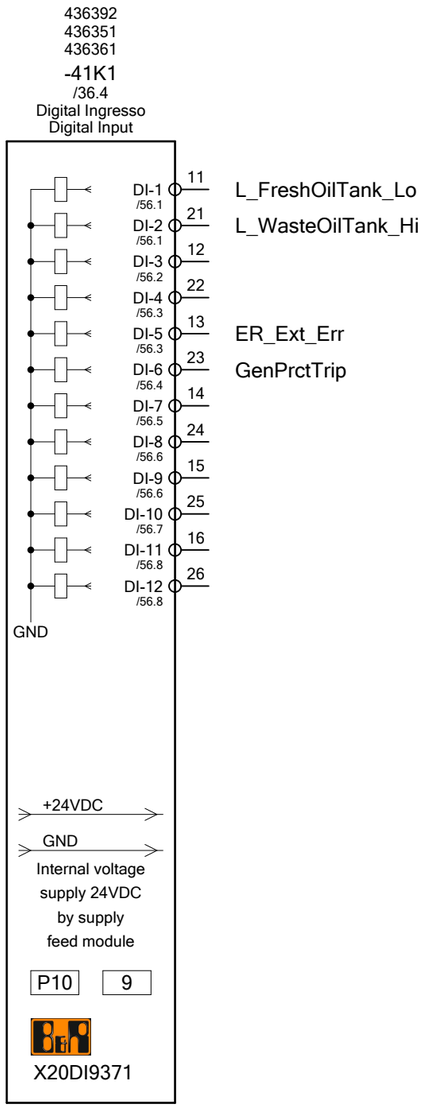

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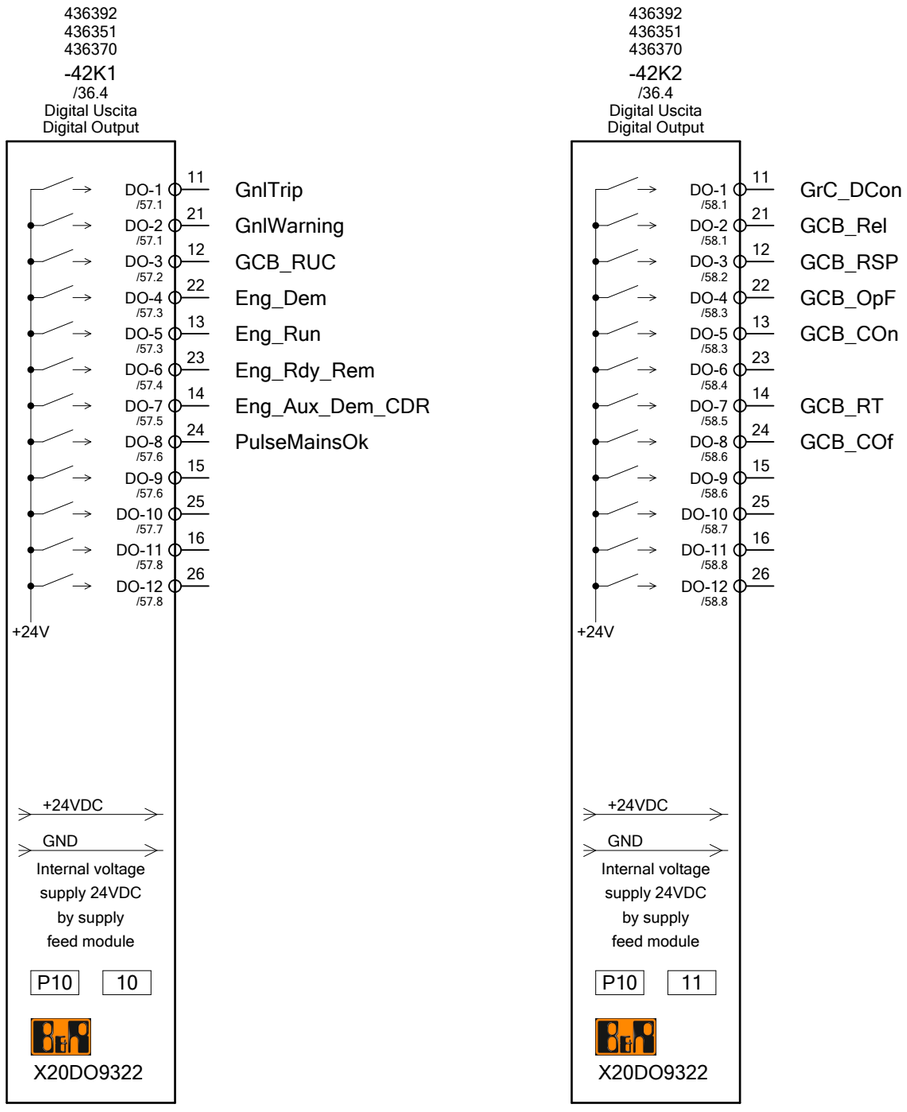

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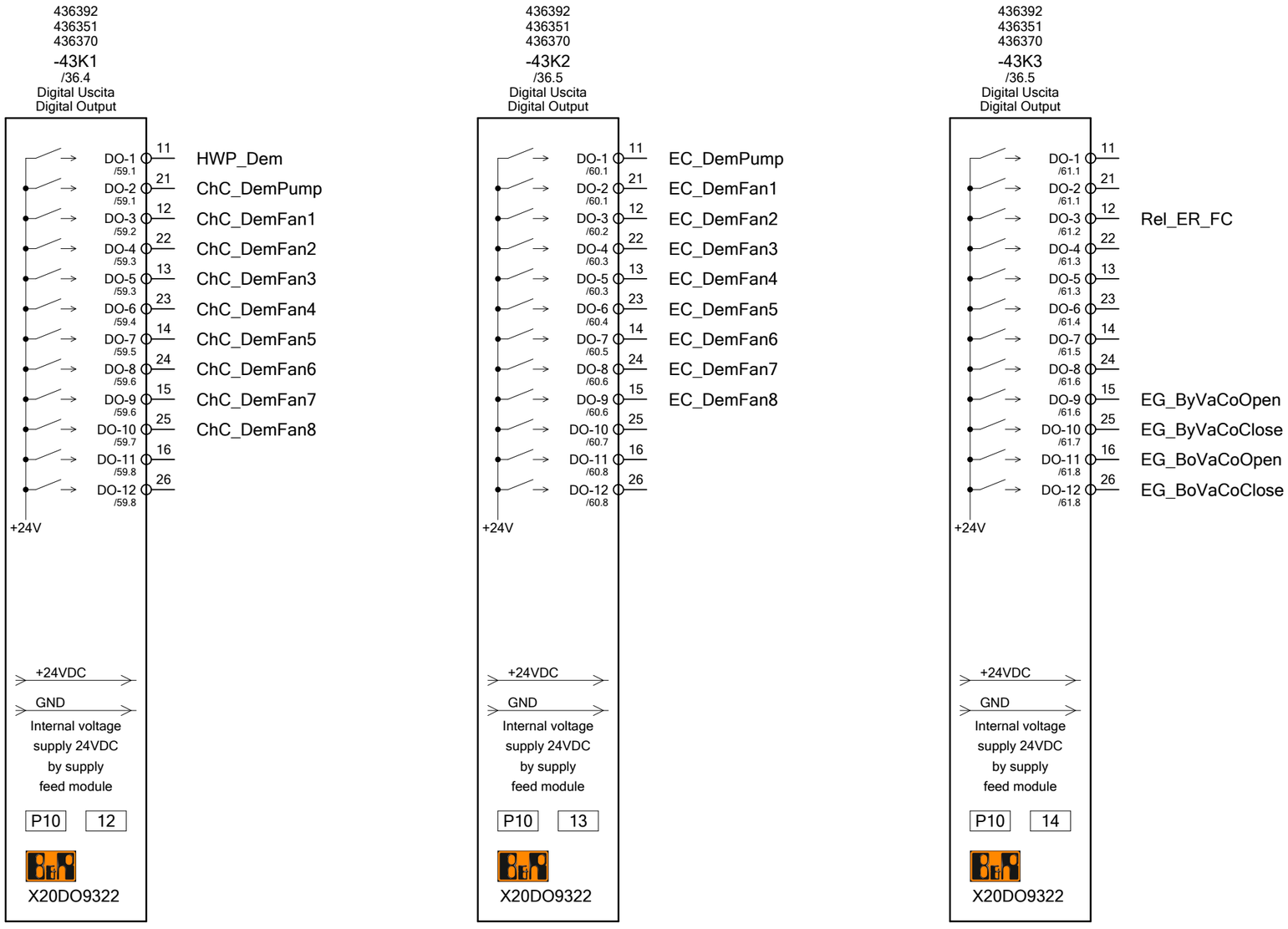

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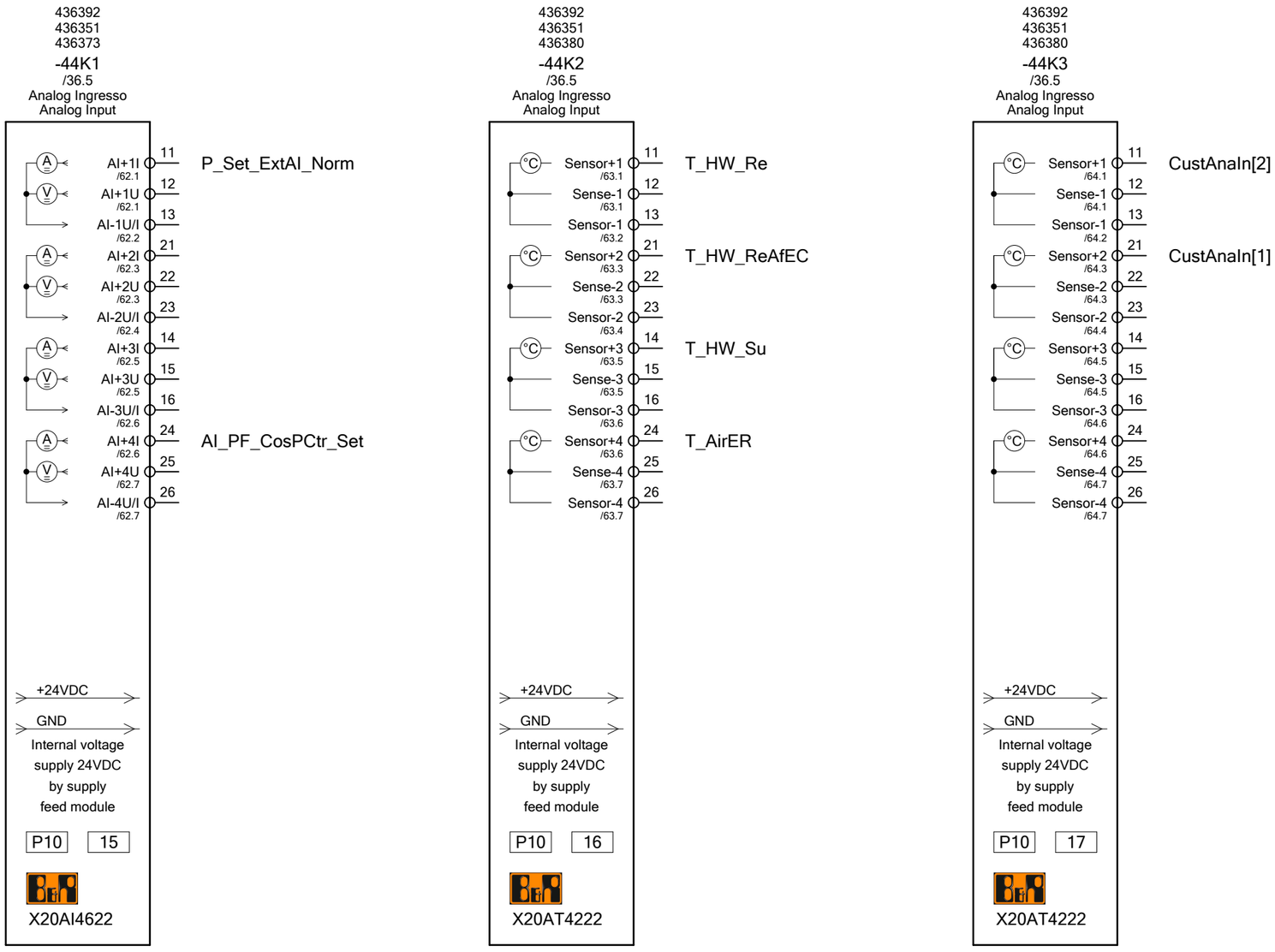

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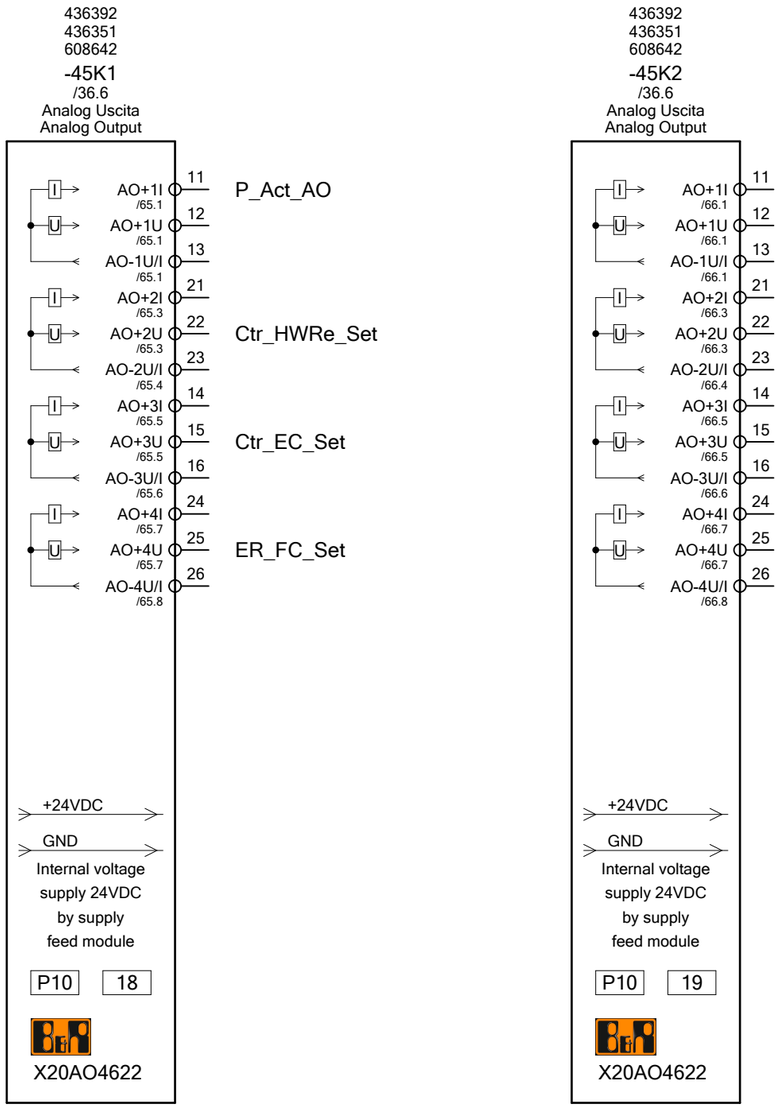

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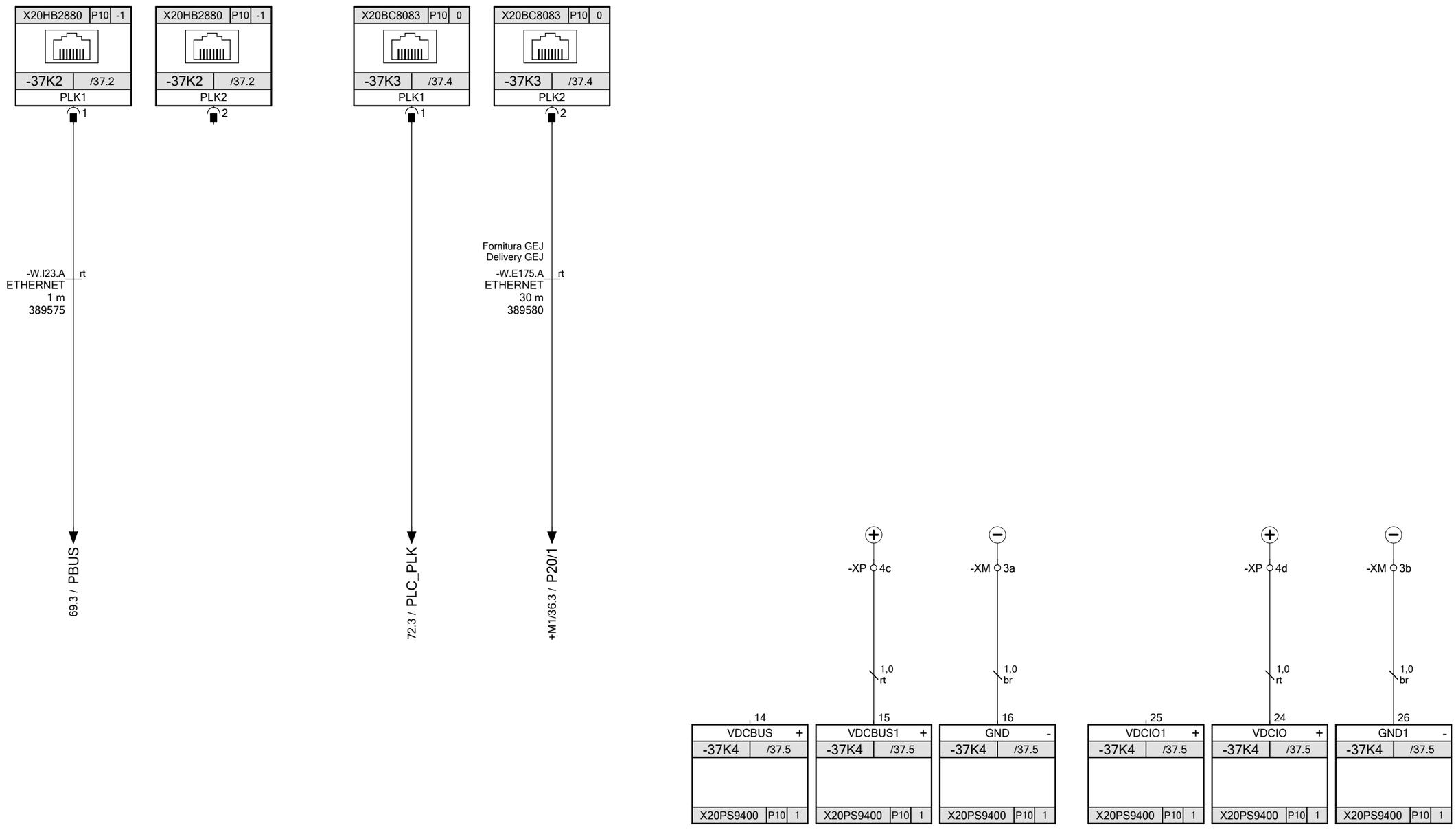

P20 (Interfaccia modulo)
P20 (Module interface)

Sistema di bus
Bus system

Industria-PC
Industry-PC

Alimentazione PLC
Supply PLC

Alimentazione PLC
Supply PLC

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 46
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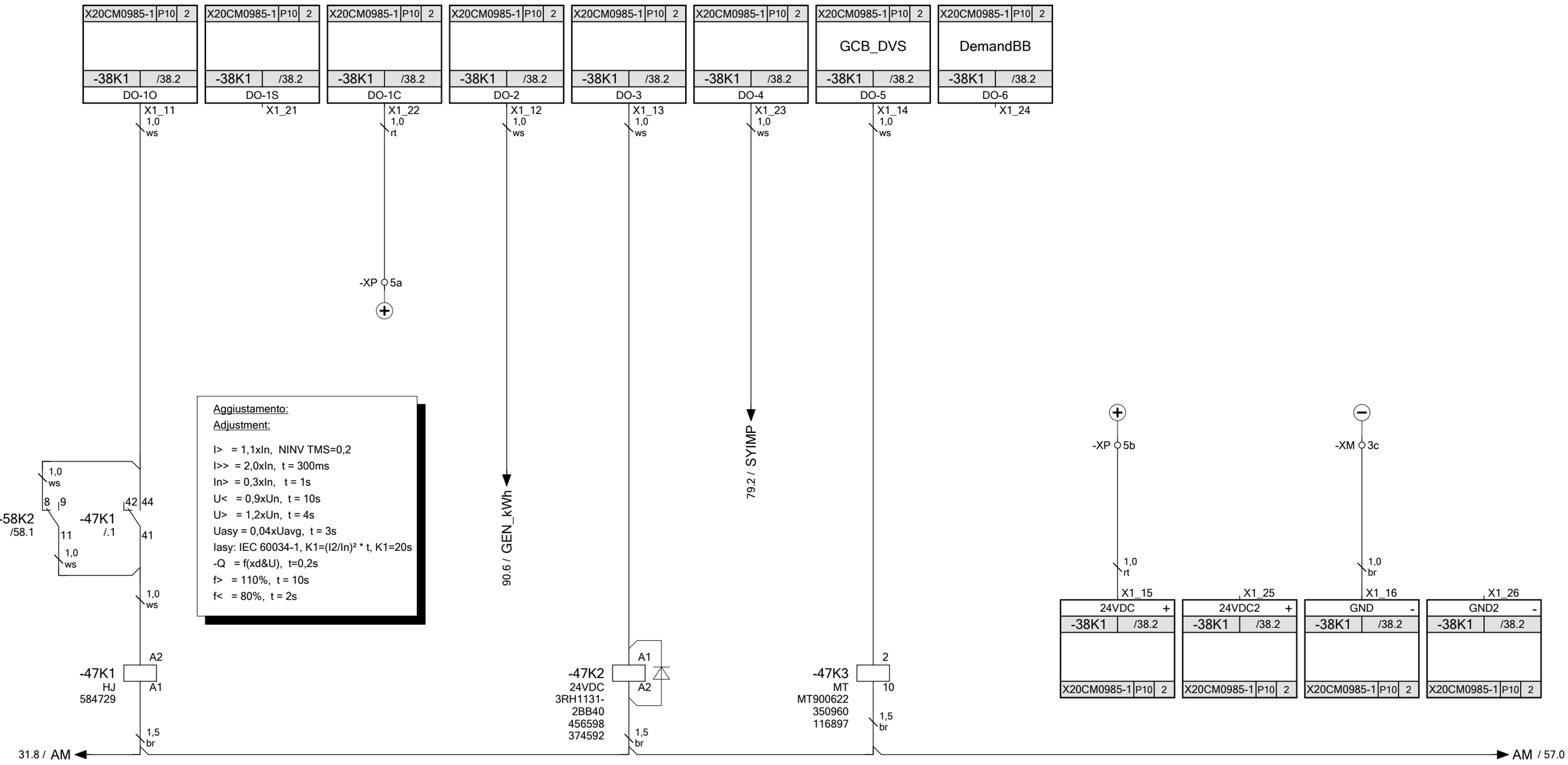

Riserva
Spare

Impulso: kWh
Pulse: kWh

SY-Impulso
SY-Pulse

Scelta Sbarre collettrice
Selection Busbar

Riserva
Spare

Riserva
Spare

Sovracarico / Corto circuito
Overload / Short circuit

Alimentazione: Digital Uscite Convertitore di misurazione e protezione
Supply: Digital Outputs Multi measuring and monitoring device

Sbarre collettrice: 0 V
Busbar: 0 V

Scelta sincronizzazione
Selection synchronisation

Alimentazione: Digital Uscite Convertitore di misurazione e protezione
Supply: Digital Outputs Multi measuring and monitoring device

Alimentazione: Digital Uscite Convertitore di misurazione e protezione
Supply: Digital Outputs Multi measuring and monitoring device

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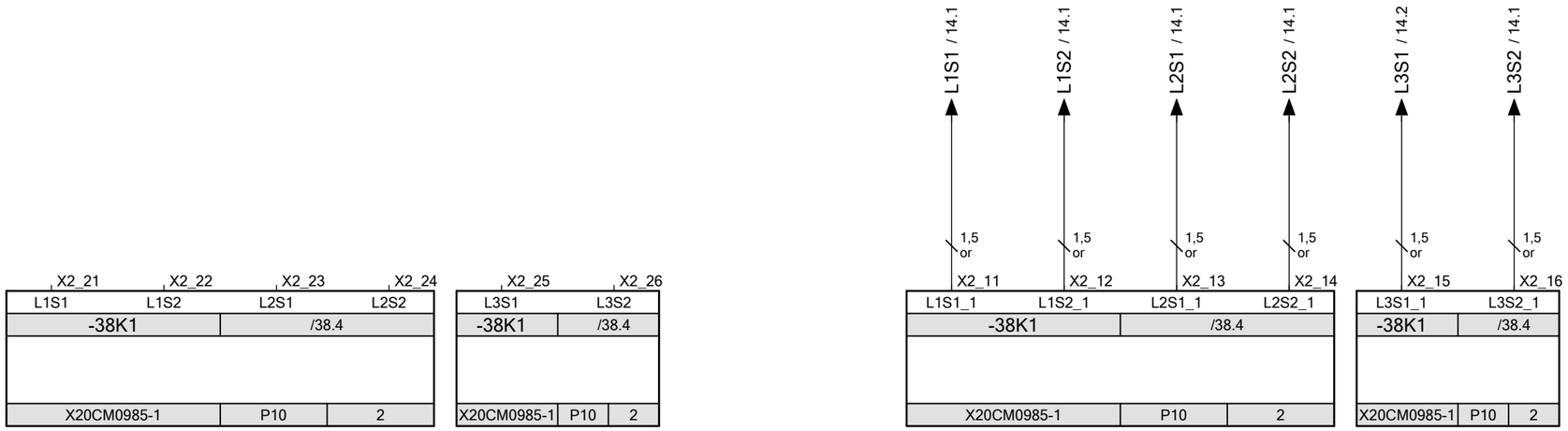
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 47
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_850.emp			



Corrente alternatore 5A
Generator current 5A

Corrente alternatore 1A
Generator current 1A

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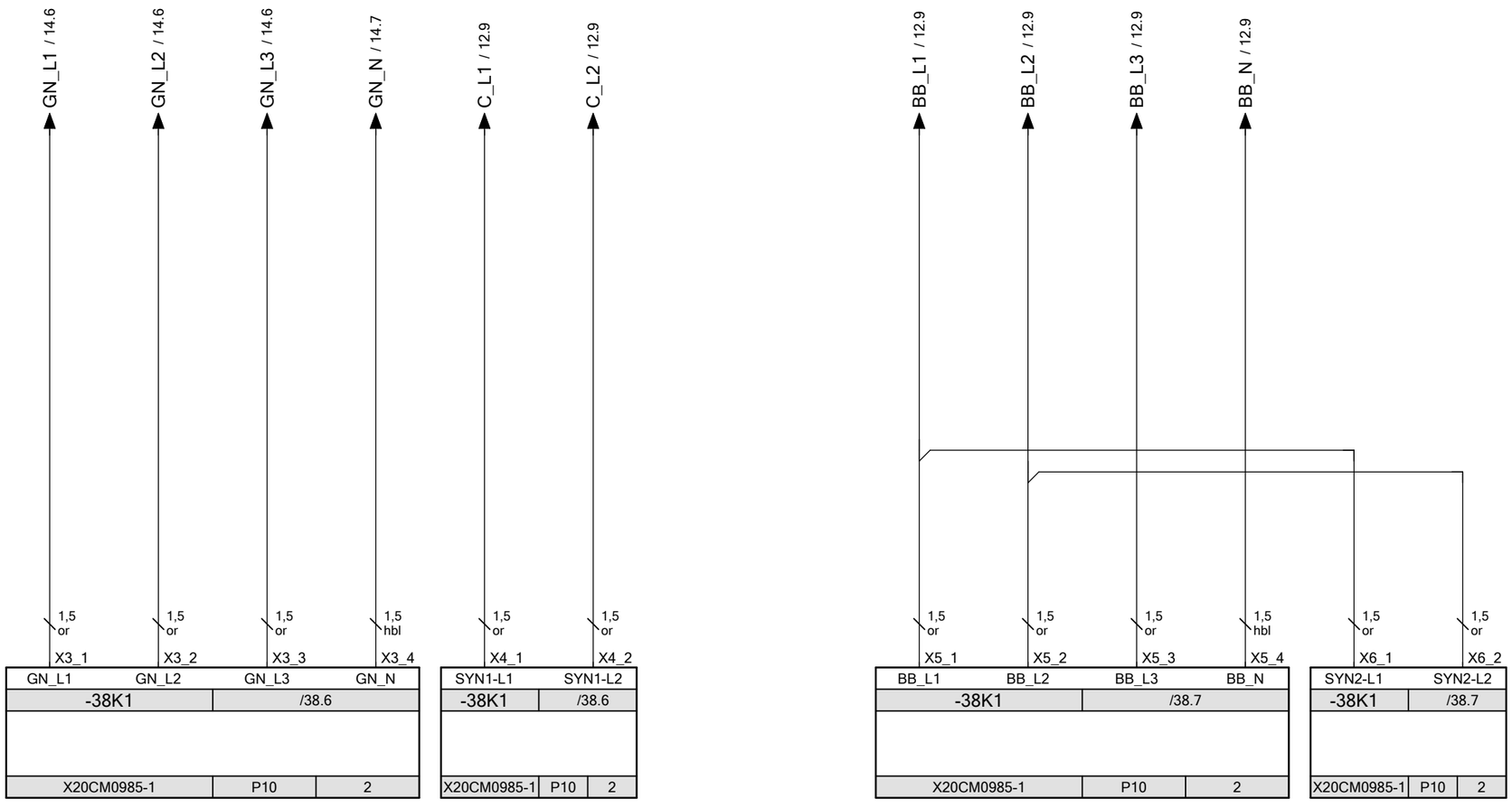
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 48
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_852.emp			



Tensione alternatore
Generator voltage

Tensione 1 Sincronizzazione
Voltage 1 Synchronisation

Tensione de la sbarra
Busbar voltage

Tensione 2 Sincronizzazione
Voltage 2 Synchronisation

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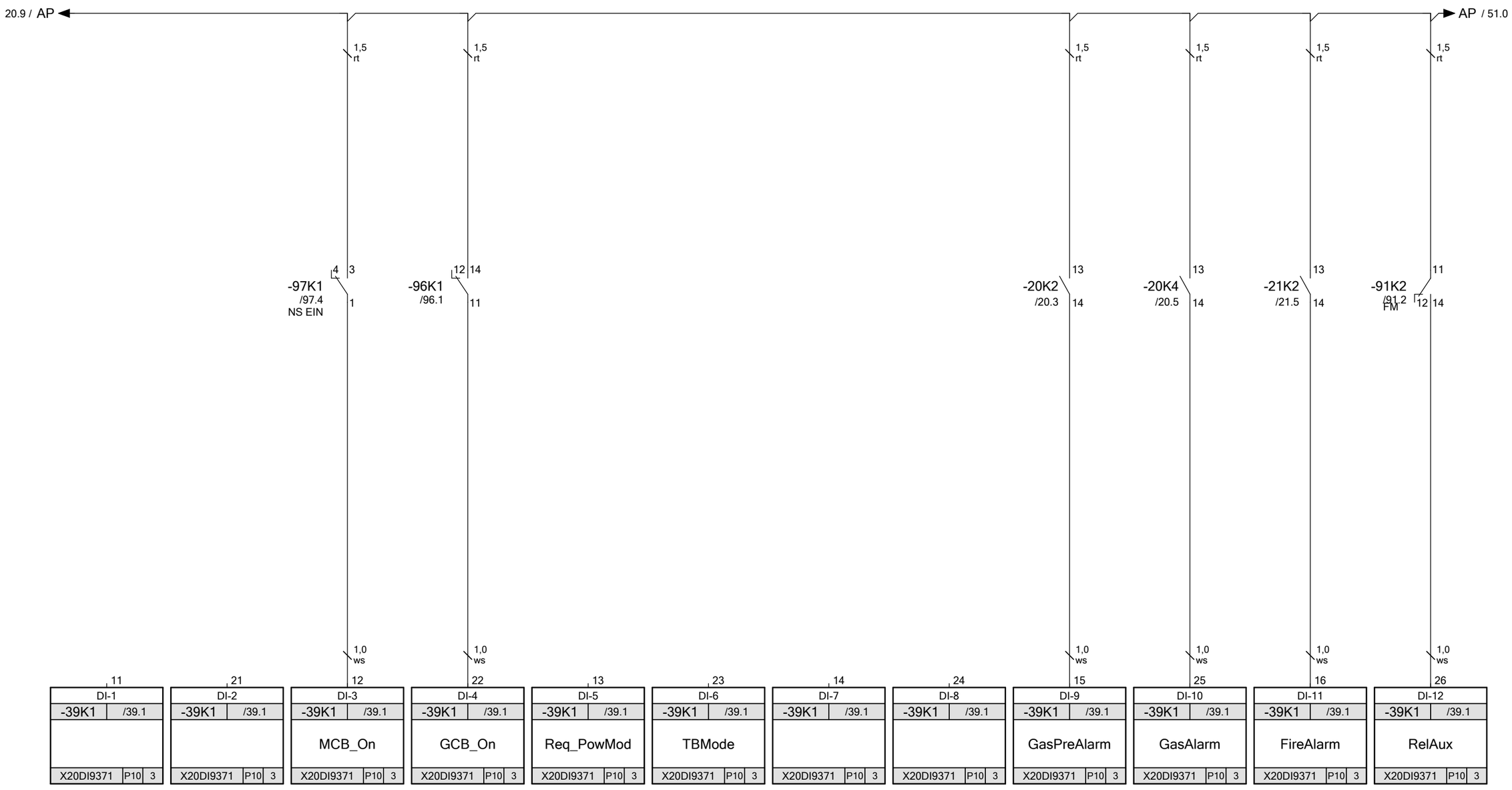

Riserva
Spare

Interruttore alternatore chiuso
Generator circuit breaker closed

CIRCUITUS

Riserva
Spare

Allarme di gas
Gas alarm

Consenso: Ausiliari
Release: Auxiliaries

Riserva
Spare

Interruttore rete chiuso
Mains circuit breaker closed

Regolazione: 1=Potenza 0=Giri
Control: 1=Power 0=Speed

Riserva
Spare

Preallarme gas
Gas prealarm

Allarme di incendio
Fire alarm

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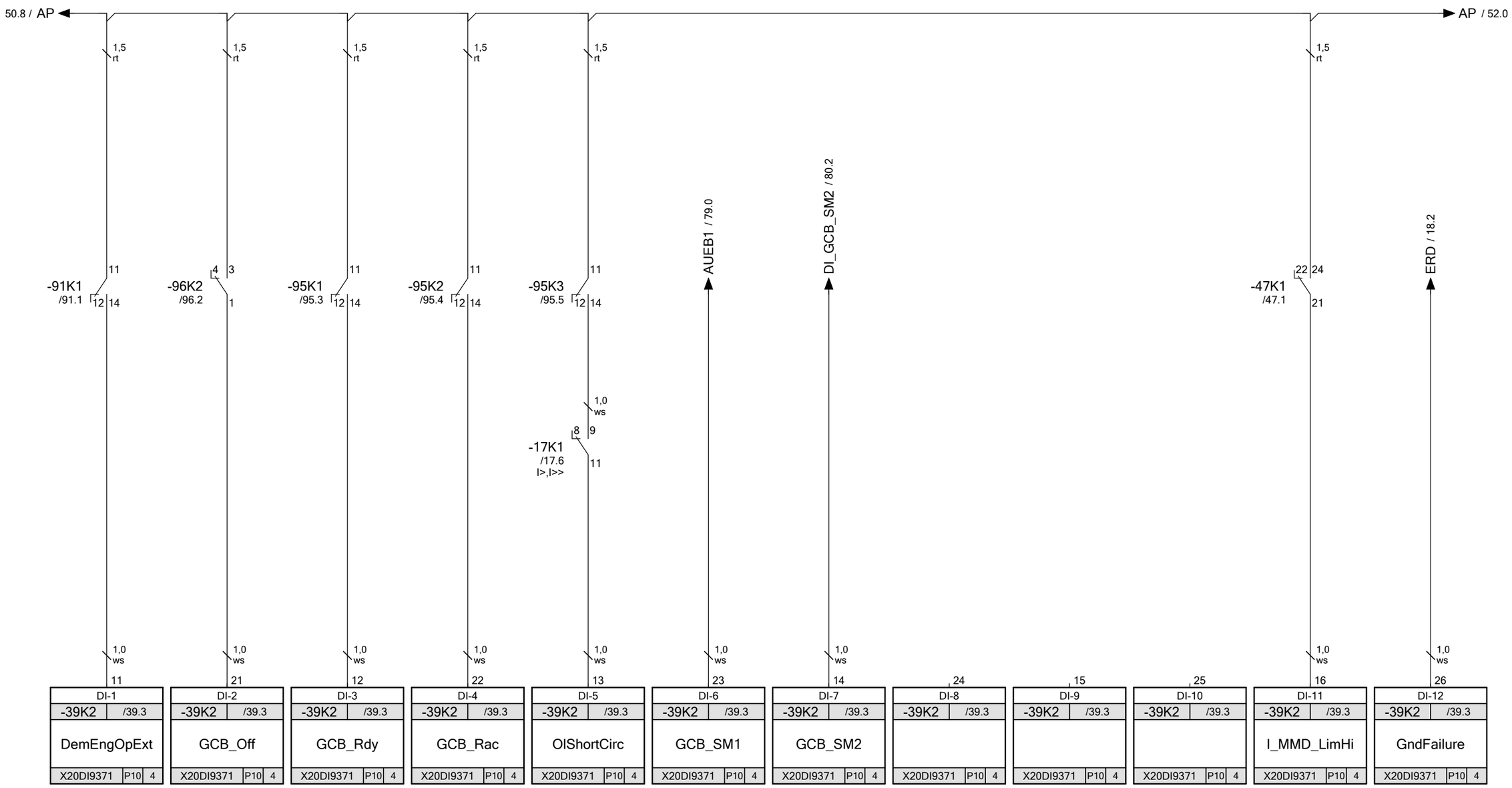

Interruttore alternatore: aperto
Generator circuit breaker: open

Interruttore alternatore: inserito
Generator circuit breaker: racked in

Soveglianca de uscita
Output monitoring

Riserva
Spare

Riserva
Spare

Dispersione a terra
Ground fault

Richiesta
Demand

Interruttore alternatore: pronto
Generator circuit breaker: ready

Alternatore: Sovracarico / Corto circuito
Generator: Overload / Short circuit

Rele Sorveglianza
Relay Monitoring

Riserva
Spare

Convertitore di misurazione e protezione:
Sovracarico / Corto circuito
Multi measuring and monitoring device:
Overload / Short circuit

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 51
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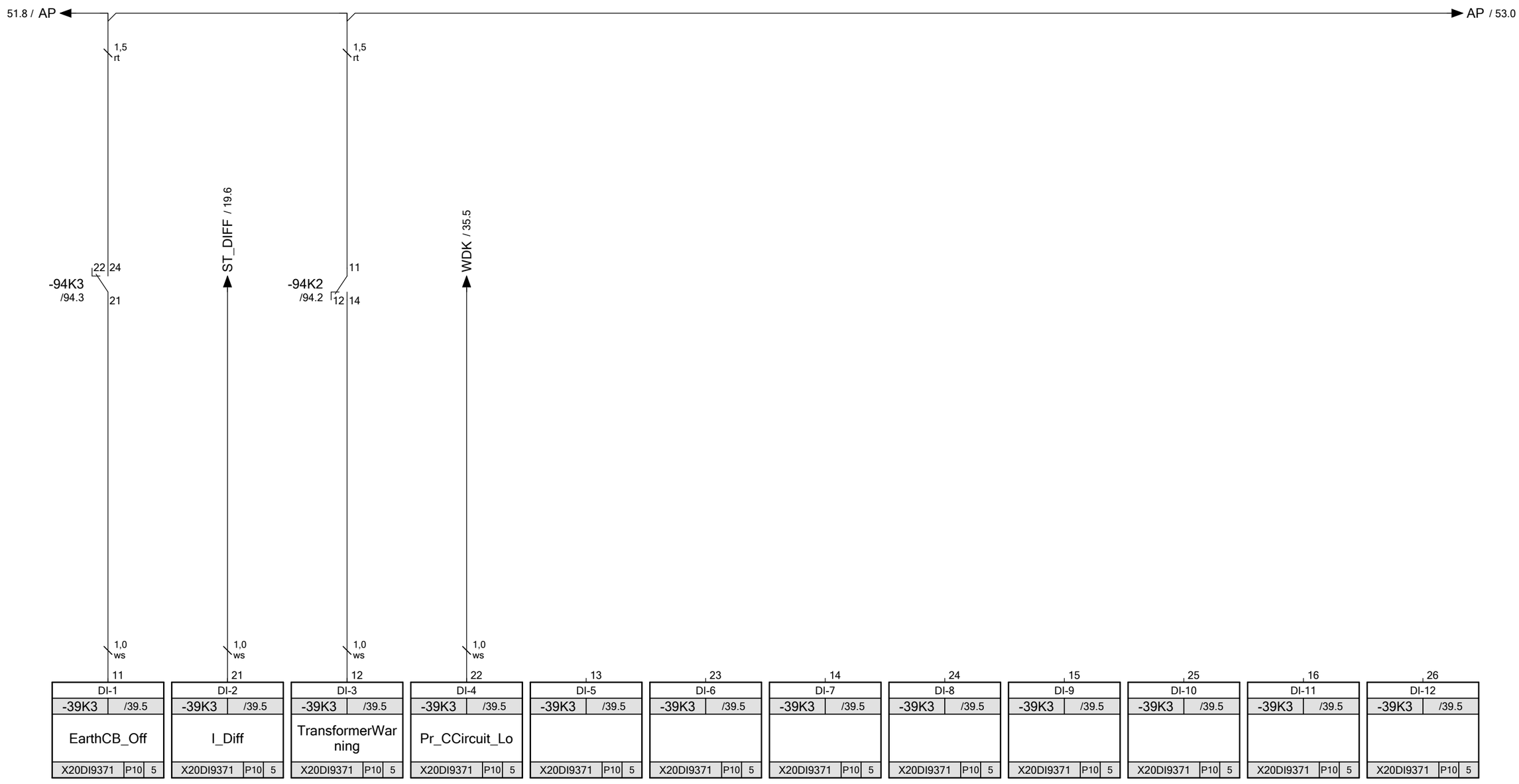

Disturbo Rele protezione differenziale
Failure Dif protection relay

Radiatore: Pressione acqua min
Dump radiator: Water pressure min

Riserva
Spare

Riserva
Spare

Riserva
Spare

Riserva
Spare

Sezionatore di messa a terra Alternatore aperto
Earthing isolator Generator open

Disturbo Trasformatore
Failure Transformer

Riserva
Spare

Riserva
Spare

Riserva
Spare

Riserva
Spare

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 52
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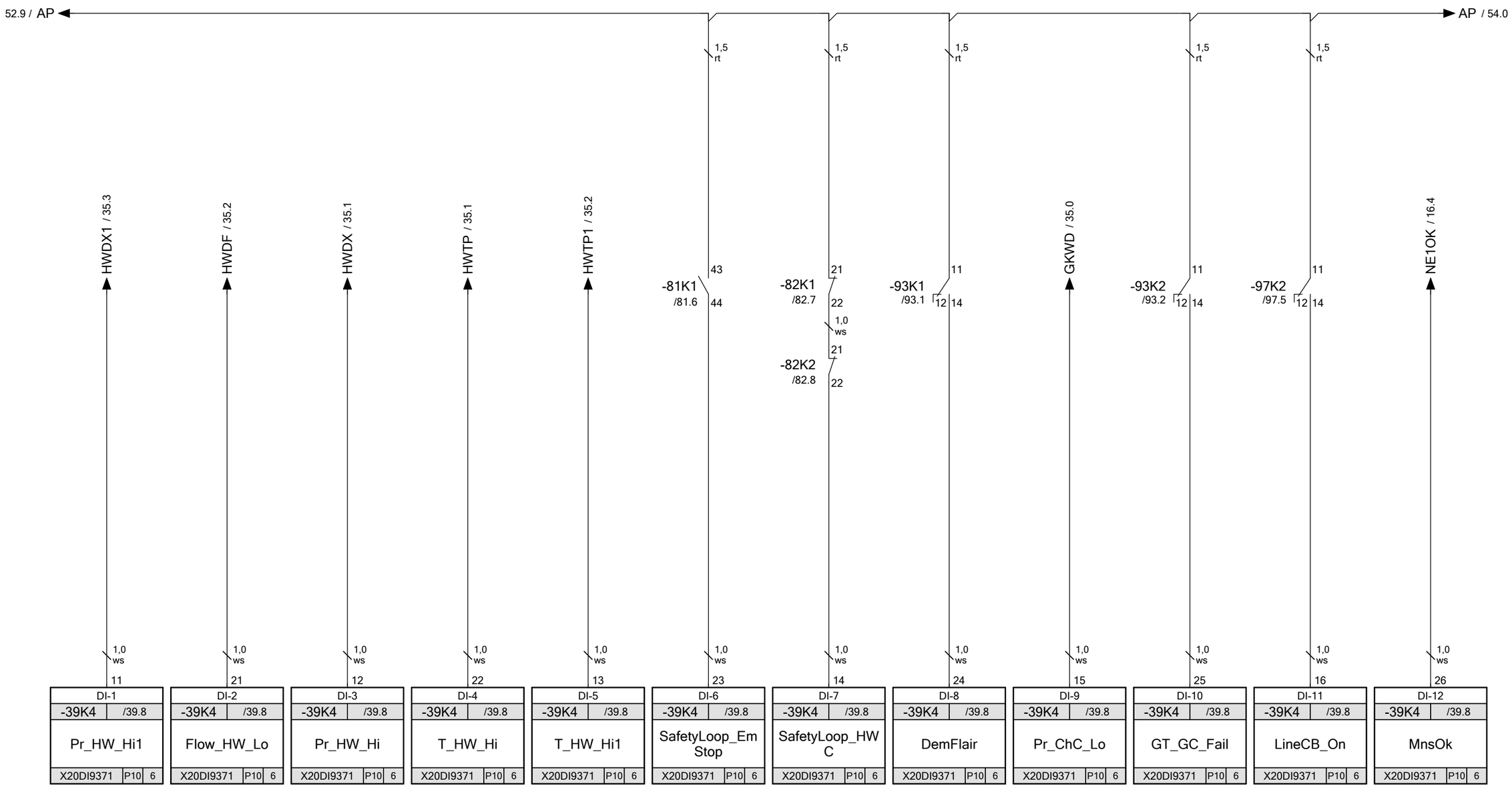

Portata acqua calda esiste
Hot water flow existing

Temp. acqua calda massima
Hot water temperature max

Corrente di riposo
Safety loop

Richiesta: Compressore gas --> Torcia
Demand: Gas compressor --> Flare

Disturbo: Compressore gas
Failure: Gas compressor

Rete OK
Mains OK

Press. acqua calda: Valvola di sicurezza
Hot water pressure: Safety limiter

Press. acqua calda massima
Hot water pressure max

Valvola termica di sicurezza
Safety temperature cut-out

Sorveglianza Sistema riscaldamento
Monitoring Hot water loop

Pressione min: Acqua raffreddamento carica
Pressure min: Charge cooling water

Antistante interruttore chiuso
Line switch closed

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 53
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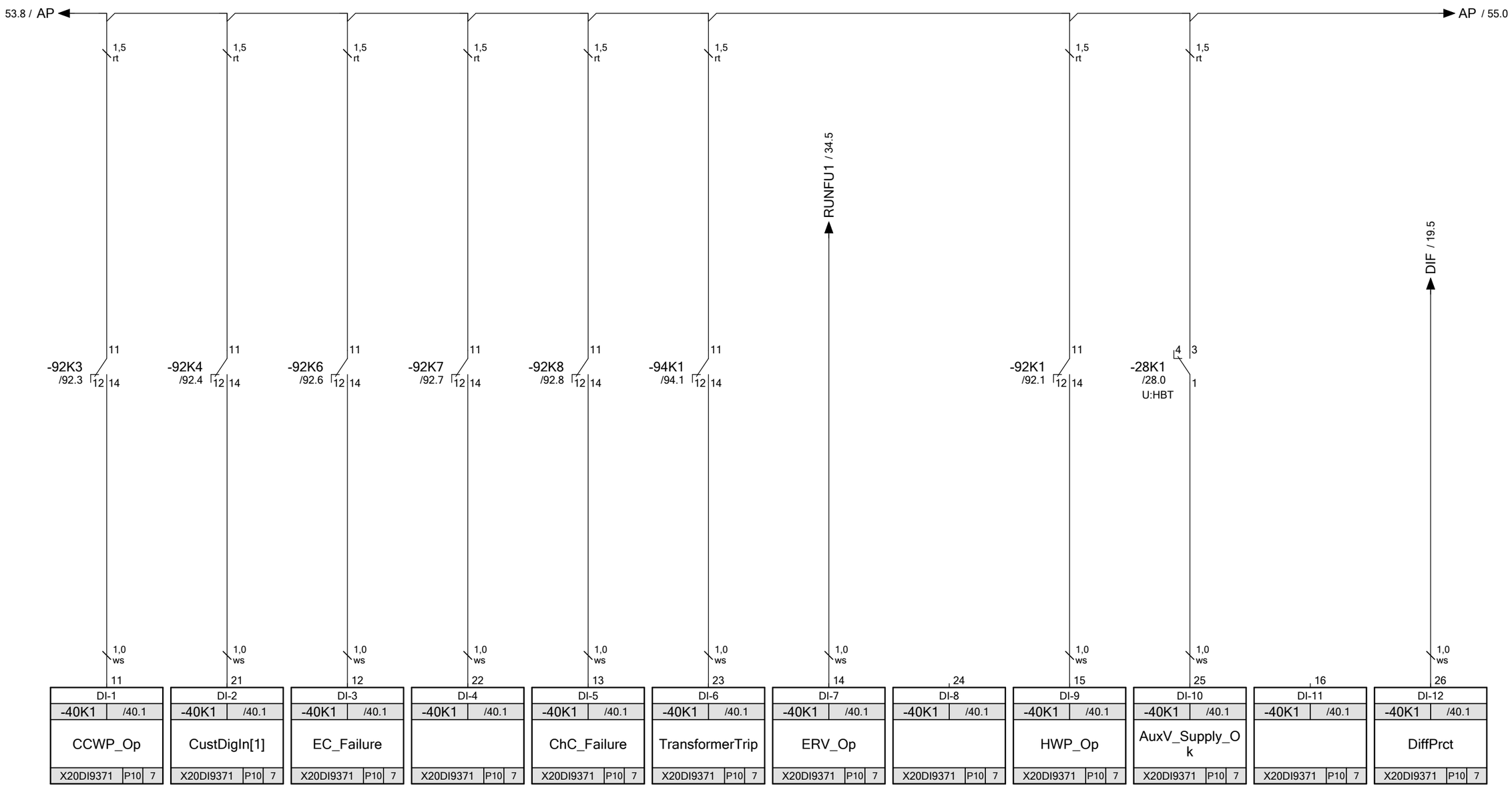

Disturbo: pompa dell'acqua di raffreddamento
Failure: emergency cooling water pump

Riserva
Spare

Disturbo: Trasformatore
Failure: Transformer

Riserva
Spare

Tensione OK: Ausiliari
Voltage OK: Auxiliaries

Protezione differenziale
Dif protection

Segnale di ritorno: Pompa acqua raffreddamento carica
Feed back: Charge cooling water pump

Disturbo: Radiatore
Failure: Dump radiator

Disturbo: Ventilatore raffreddamento carica
Failure: Charge cooling fan

############
room ventilation runs / Flow OK

Disturbo: Pompa acqua calda
Failure: Hot water pump

Riserva
Spare

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 54
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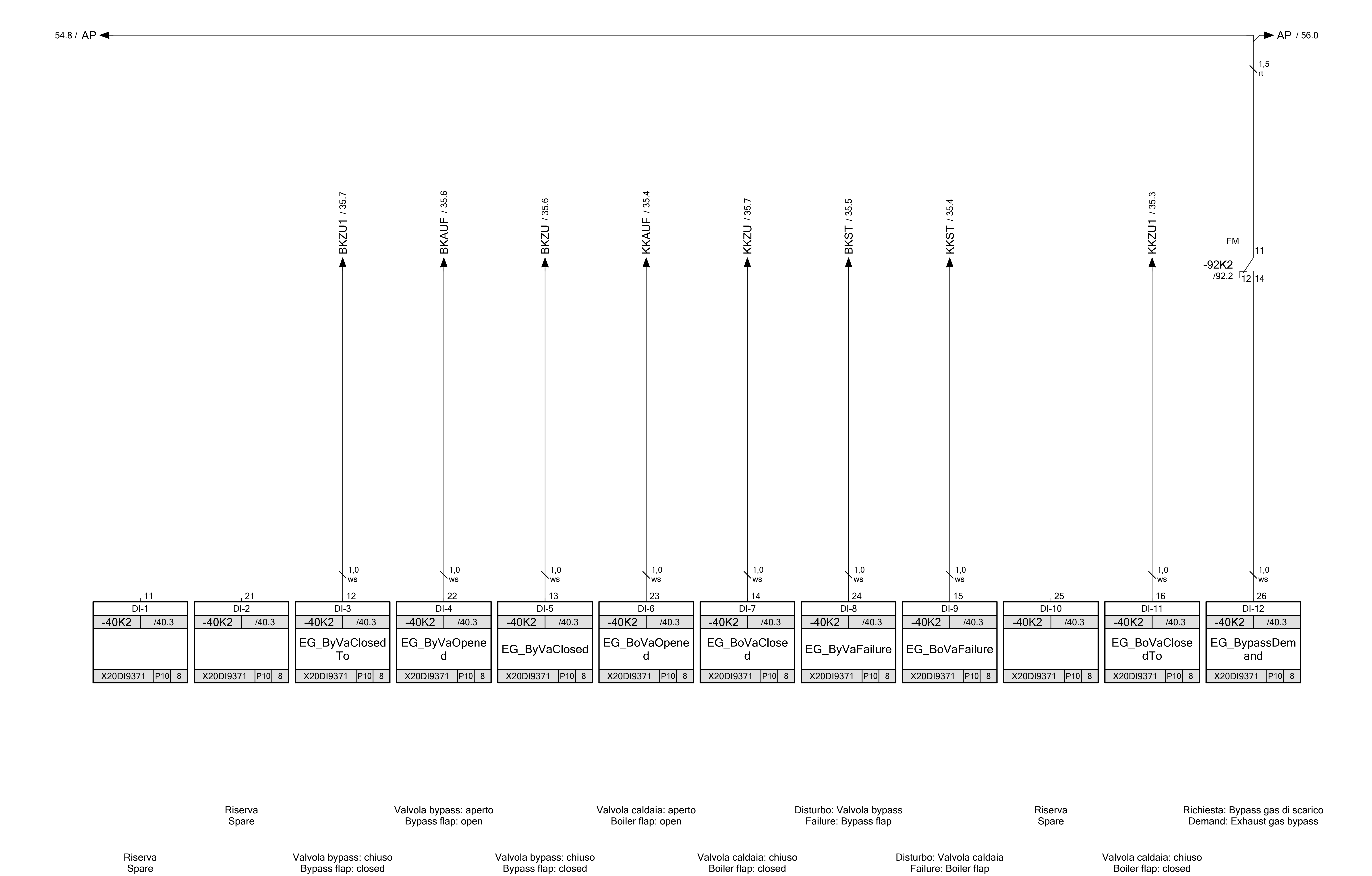

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			Desig.	Streiter Daniela			Digital Inputs		
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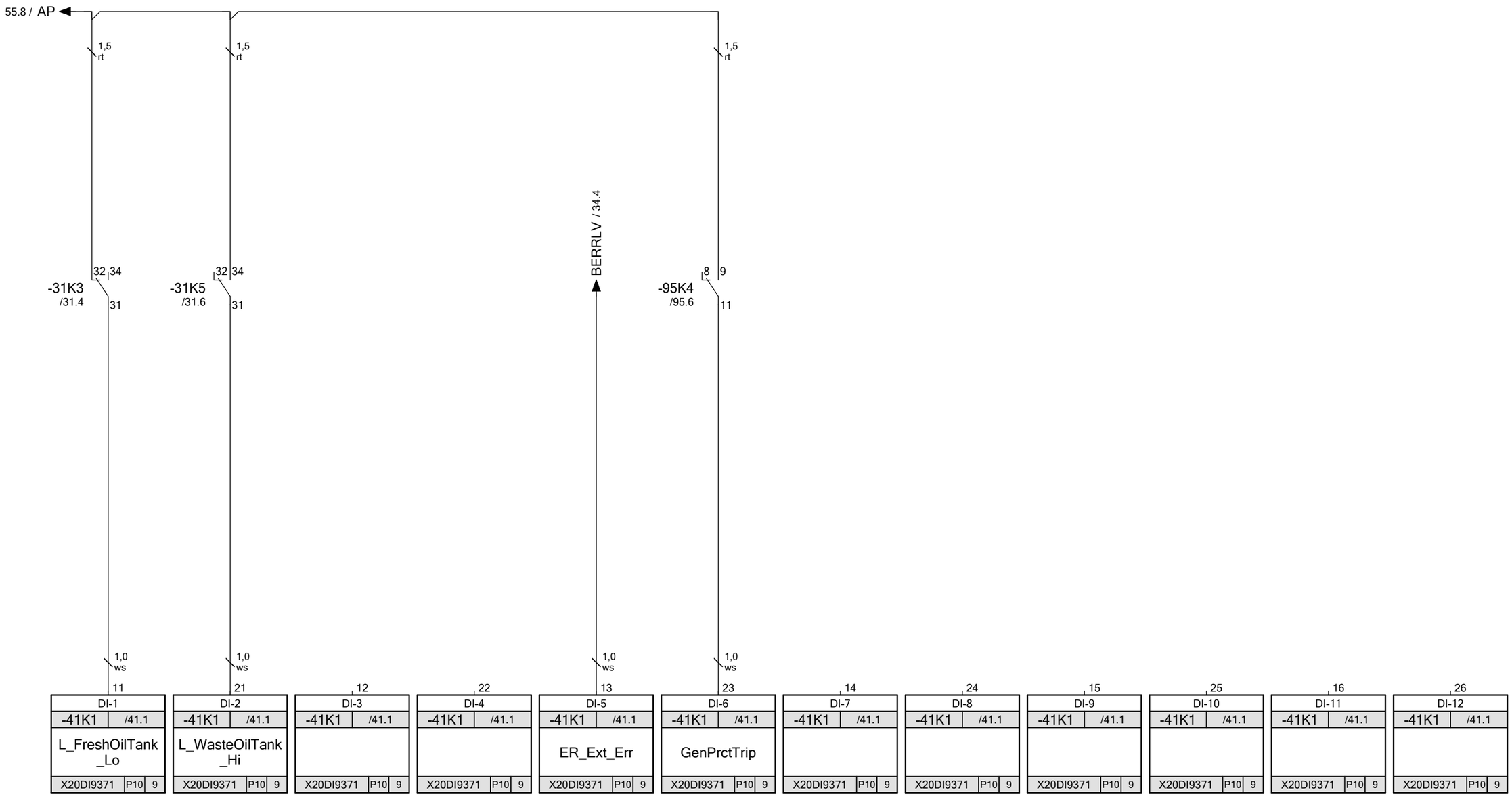
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	EPLAN electric P8 SGMACRO\A1_920.emp		Wiring Diagram J T132	Page 55



Arresto Azionamento Disconnection Drive (Interruttore di fine corsa) (Limit switch)

(Interruttore di fine corsa) (Limit switch) Segnali! Signal!

Serbatoio olio usato: massima
Waste oil tank: max

Riserva
Spare

Alternatore: Protezione scatto
Generator: Protection tripped

Riserva
Spare

Riserva
Spare

Riserva
Spare

Serbatoio olio fresco: min
Freshoil tank: min

Riserva
Spare

Disturbo: ventilazione della stanza
Failure: room ventilation

Riserva
Spare

Riserva
Spare

Riserva
Spare

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 56
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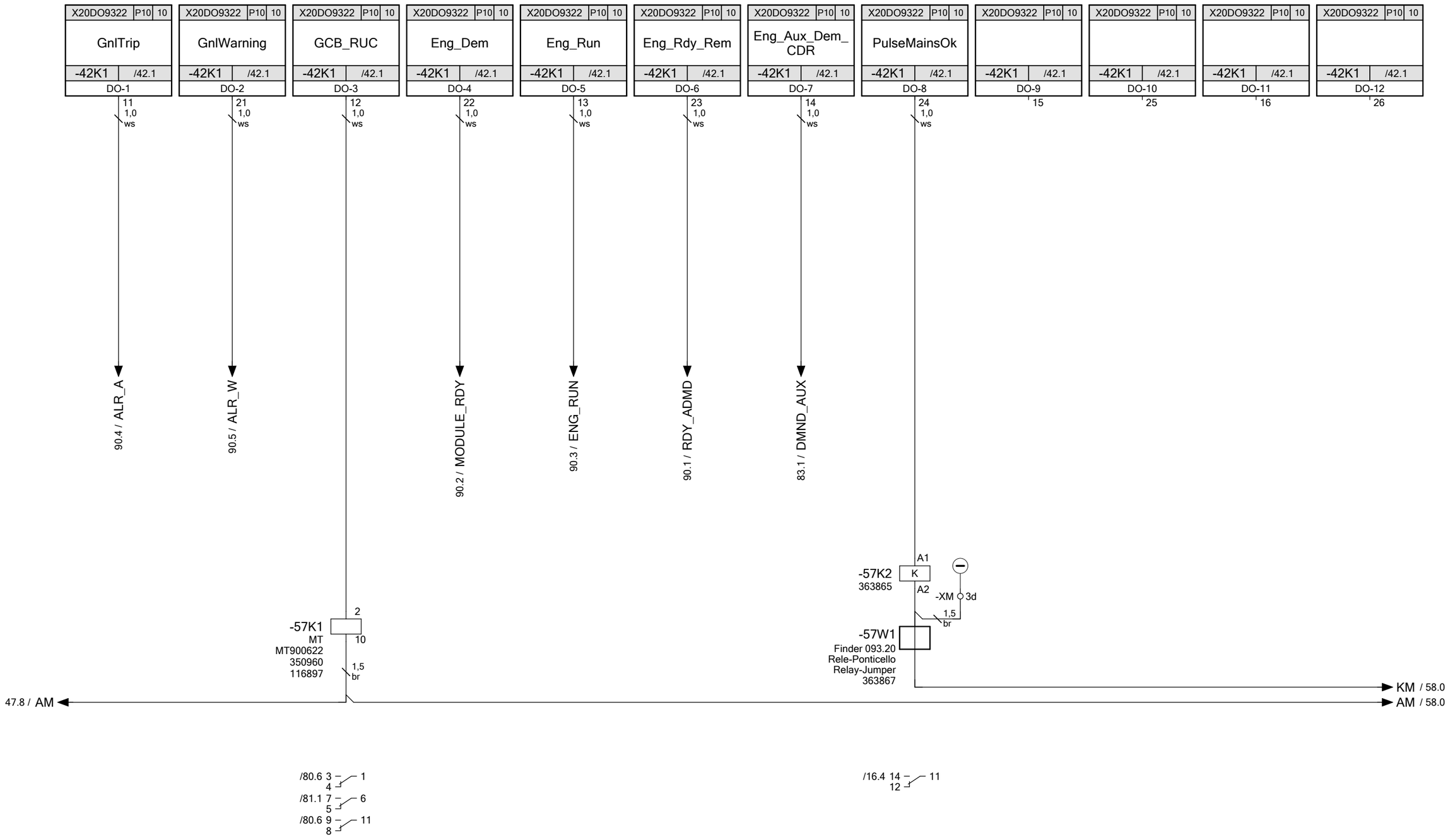

Disturbo generale Allarma
General alarm Warning

Modulo richiesta
Module demanded

pronto: distante Richiesta automatica
Funzionamento in parallelo
ready: remote Automatic demand Mains
parallel operation

Rete OK Impulso
Mains OK Pulse

Riserva
Spare

Riserva
Spare

Disturbo generale fermo
General alarm Shut down

Bobina di min. tensione
Under voltage trip coil

Servizio
Operation

Richiesta Ausiliari
Demand Auxiliaries

Riserva
Spare

Riserva
Spare

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			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 57
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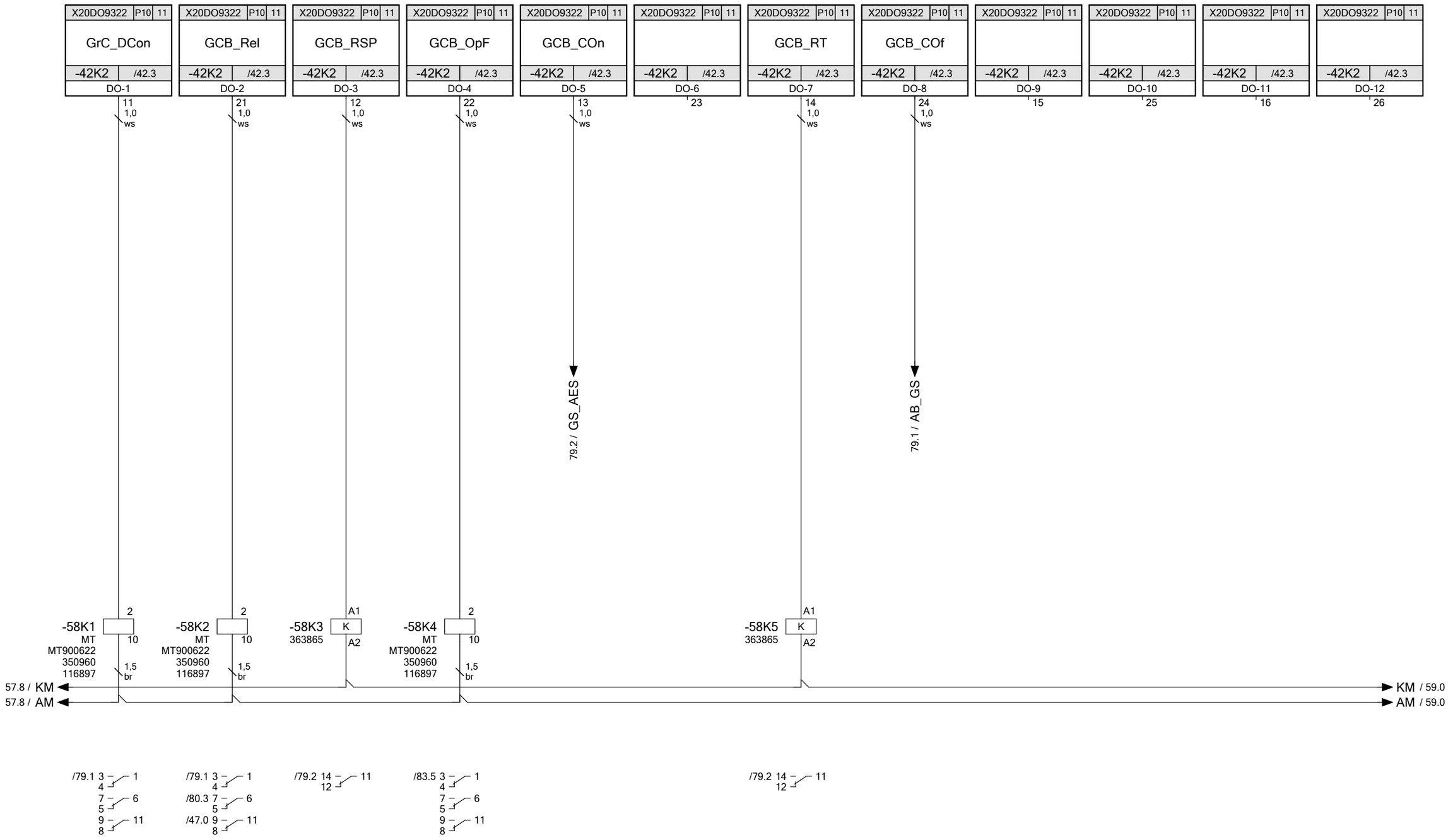

Consenso Interruttore alternatore
Release Generator circuit breaker

Disturbo disinserzione Interruttore alternatore
opening failure Generator circuit breaker

Riserva
Spare

Disinserimento Interruttore alternatore
Switch off Generator circuit breaker

Riserva
Spare

Riserva
Spare

Disattivazione di rete Gridcode
Mains disconnection Gridcode

Consenso SY Interruttore alternatore
Release SY Generator circuit breaker

Interruttore alternatore Automatica Primo inserimento
Generator circuit breaker Automatic First closing

Interruttore alternatore: Ponticello Rete OK
Generator circuit breaker: Jump out Mains OK

Riserva
Spare

Riserva
Spare

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HWP_Dem	ChC_DemPump	ChC_DemFan1	ChC_DemFan2	ChC_DemFan3	ChC_DemFan4	ChC_DemFan5	ChC_DemFan6	ChC_DemFan7	ChC_DemFan8		
-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1	-43K1 /43.1
DO-1	DO-2	DO-3	DO-4	DO-5	DO-6	DO-7	DO-8	DO-9	DO-10	DO-11	DO-12
11 1,0 ws	21 1,0 ws	12 1,0 ws	22 1,0 ws	13 1,0 ws	23 1,0 ws	14 1,0 ws	24 1,0 ws	15 1,0 ws	25 1,0 ws	16	26
86.1 / DMND_HWP	86.2 / DMND_CCWP	86.3 / DMND_CCF1	86.4 / DMND_CCF2	86.5 / DMND_CCF3	86.6 / DMND_CCF4	86.7 / DMND_CCF5	86.8 / DMND_CCF6	87.3 / DMND_CCF7	87.4 / DMND_CCF8		

58.8 / KM ◄──────────────────────────────────► KM / 60.0
58.8 / AM ◄──────────────────────────────────► AM / 60.0

Richiesta Pompa acqua raffreddamento carica
Demand Charge cooling water pump

Richiesta Ventilatore raffreddamento carica 2
Demand Charge cooling fan 2

Richiesta Ventilatore raffreddamento carica 4
Demand Charge cooling fan 4

Richiesta Ventilatore raffreddamento carica 6
Demand Charge cooling fan 6

Richiesta Ventilatore raffreddamento carica 8
Demand Charge cooling fan 8

Riserva
Spare

Richiesta Pompa acqua calda
Demand Hot water pump

Richiesta Ventilatore raffreddamento carica 1
Demand Charge cooling fan 1

Richiesta Ventilatore raffreddamento carica 3
Demand Charge cooling fan 3

Richiesta Ventilatore raffreddamento carica 5
Demand Charge cooling fan 5

Richiesta Ventilatore raffreddamento carica 7
Demand Charge cooling fan 7

Riserva
Spare

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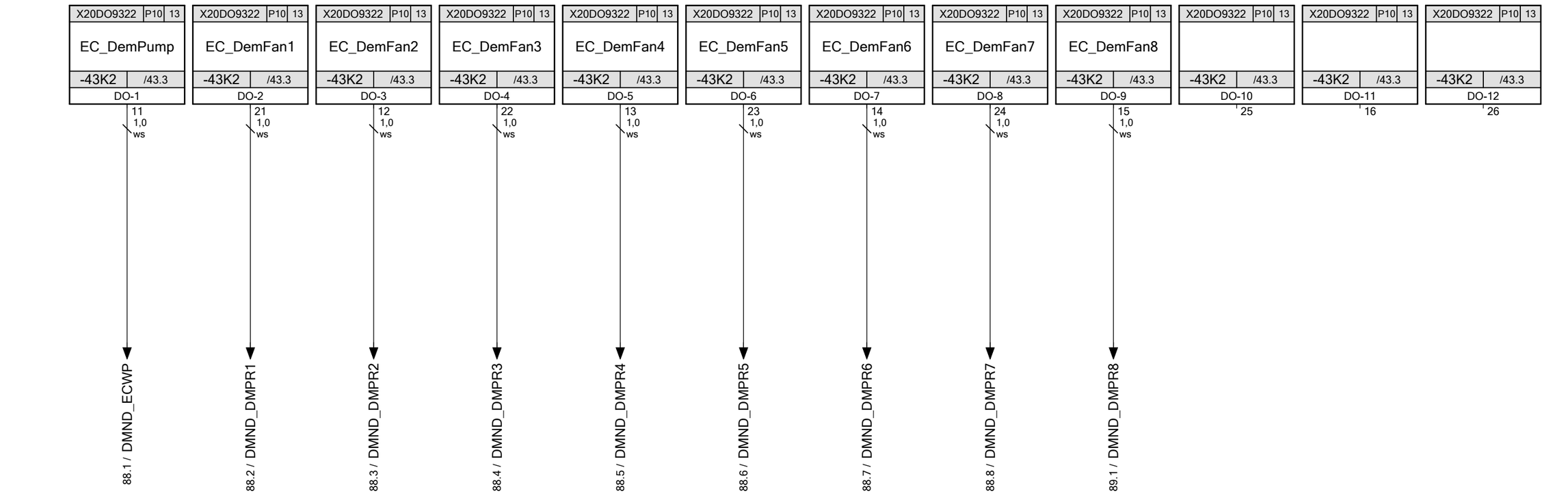
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 59
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1013.emp			



Richiesta Ventilatore d'emergenza 1
Demand Dump radiator 1

Richiesta Ventilatore d'emergenza 3
Demand Dump radiator 3

Richiesta Ventilatore d'emergenza 5
Demand Dump radiator 5

Richiesta Ventilatore d'emergenza 7
Demand Dump radiator 7

Riserva
Spare

Riserva
Spare

Richiesta pompa dell'acqua di raffreddamento
Demand emergency cooling water pump

Richiesta Ventilatore d'emergenza 2
Demand Dump radiator 2

Richiesta Ventilatore d'emergenza 4
Demand Dump radiator 4

Richiesta Ventilatore d'emergenza 6
Demand Dump radiator 6

Richiesta Ventilatore d'emergenza 8
Demand Dump radiator 8

Riserva
Spare

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 60
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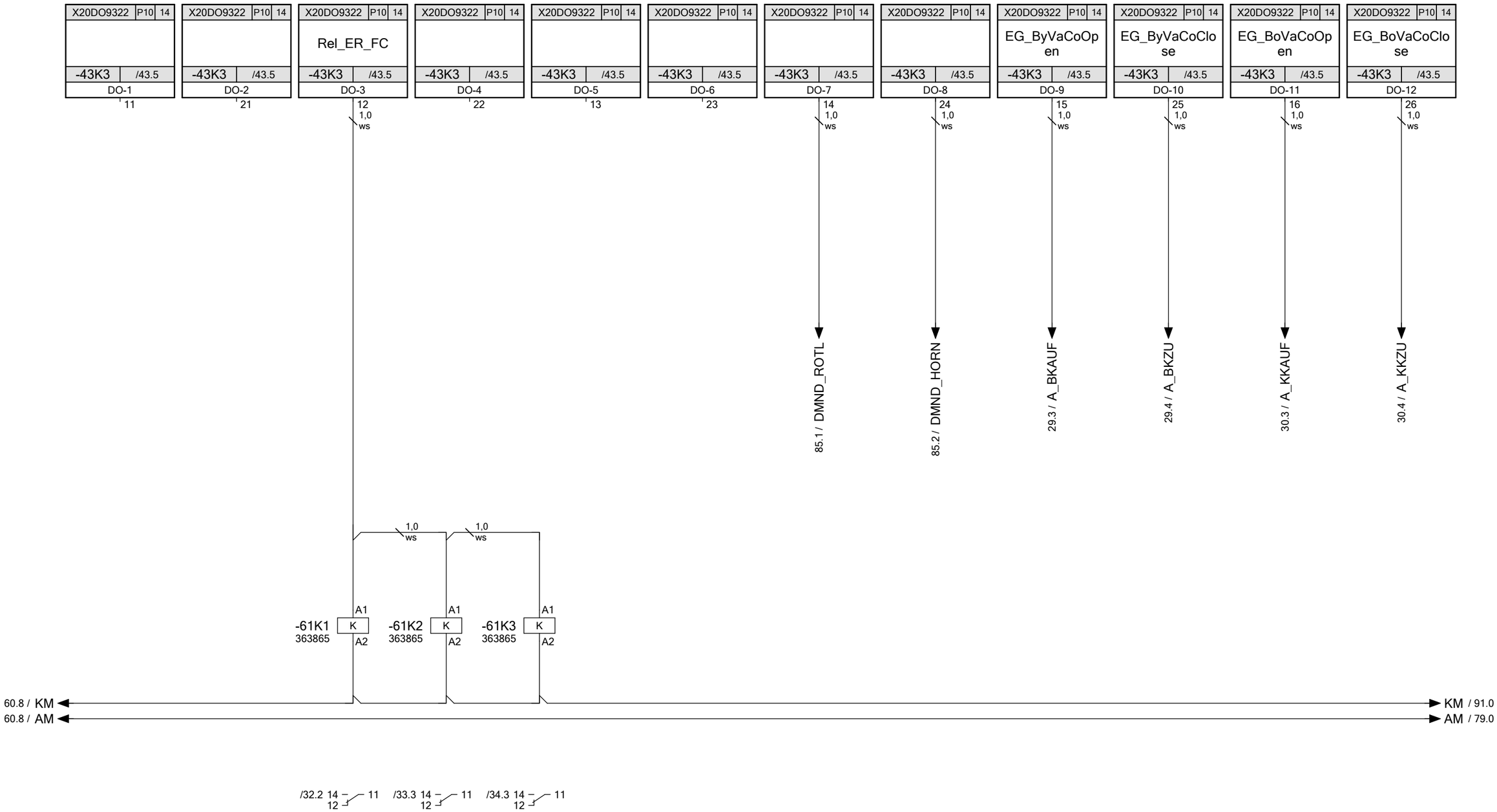

0	1	2	3	4	5	6	7	8	9
	Riserva Spare	Riserva Spare	Riserva Spare	Riserva Spare	Riserva Spare	Valvola bypass chiudere Bypass flap close	Valvola caldaia chiudere Boiler flap close		
Riserva Spare	Consenso Convertitore frequenza Ventilatore aria Release Frequency converter Room fans	Riserva Spare	Riserva Spare	Valvola bypass aprire Bypass flap open	Valvola caldaia aprire Boiler flap open				
60									62

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 61
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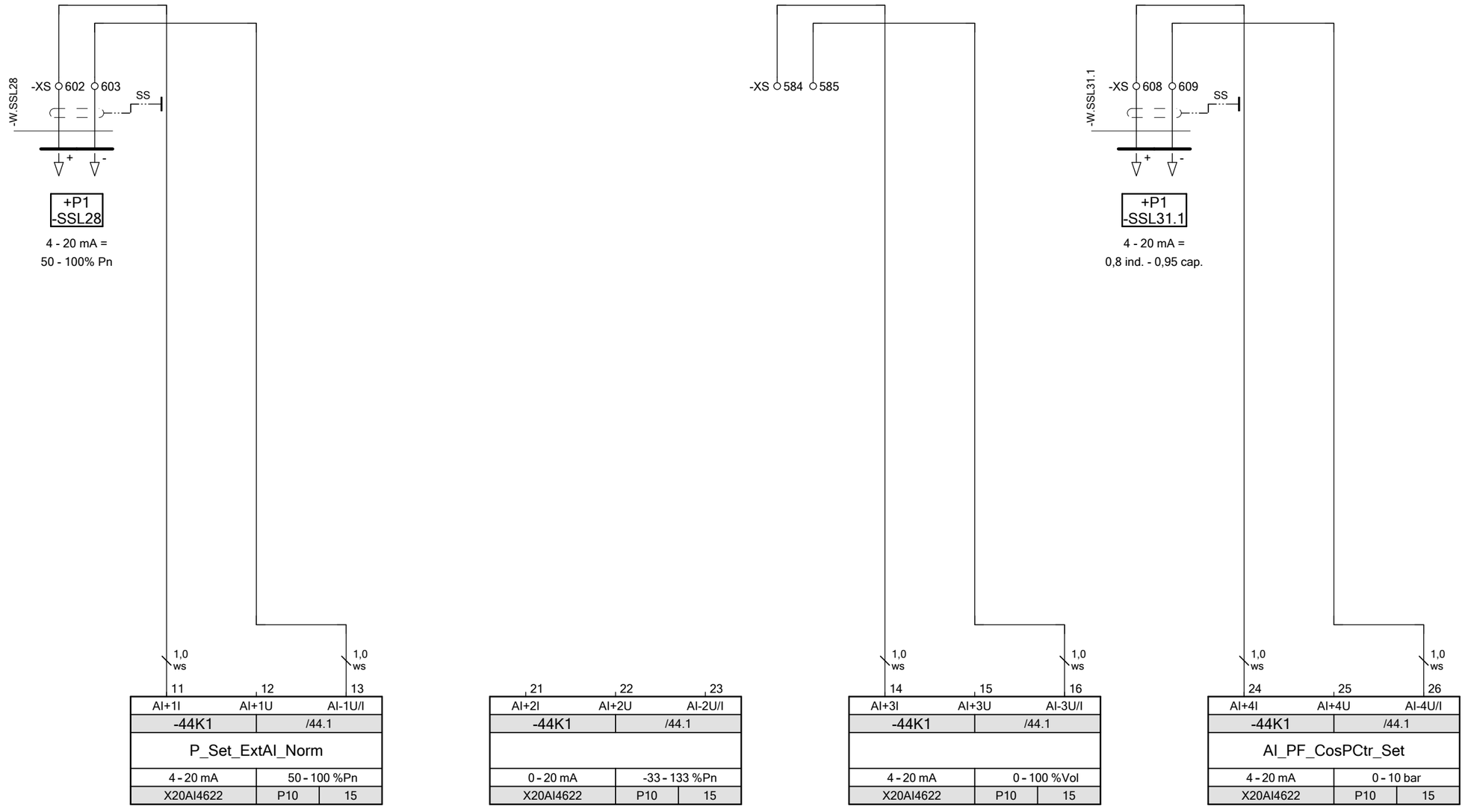

Valore nominale de la potenza Esterno
Set point power External

Riserva
Spare

Riserva
Spare

Valore nominale: Cosφ
Set point: Cosφ

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 62
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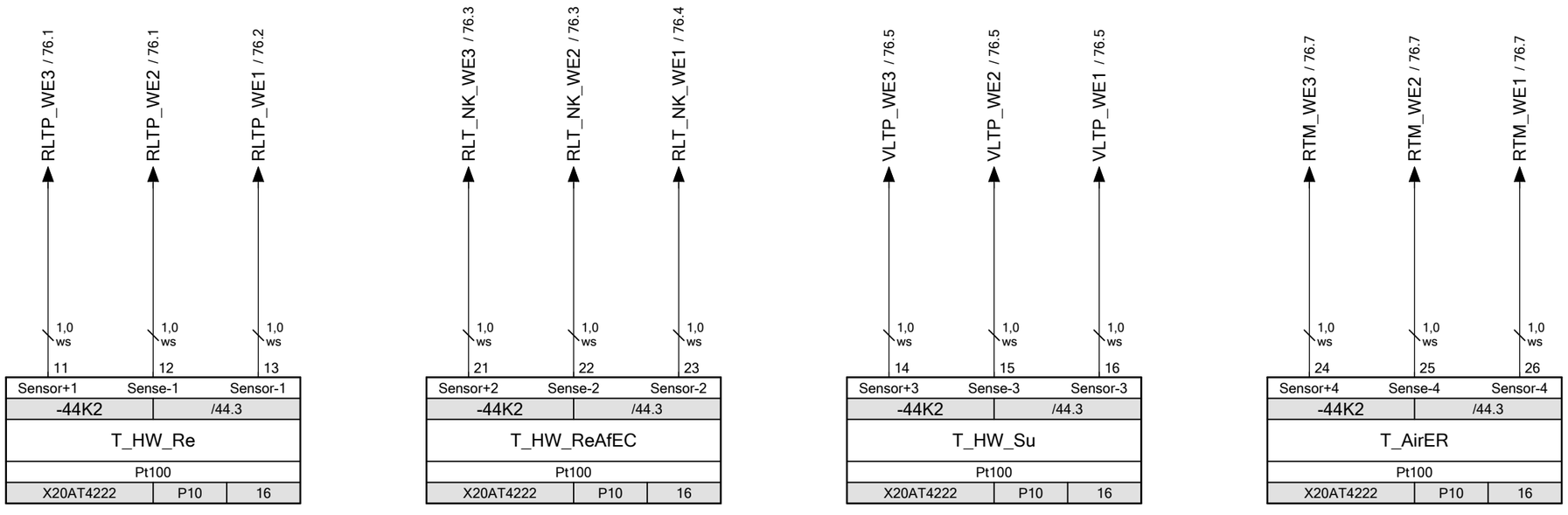

Temperature di ritorno
Heating water return temperature

Temperatura ritorno a valle di refrigeratore
Return temperature after cooler

Temperatura mandata
supply temperature

Temperatura de la sala
Room temperature

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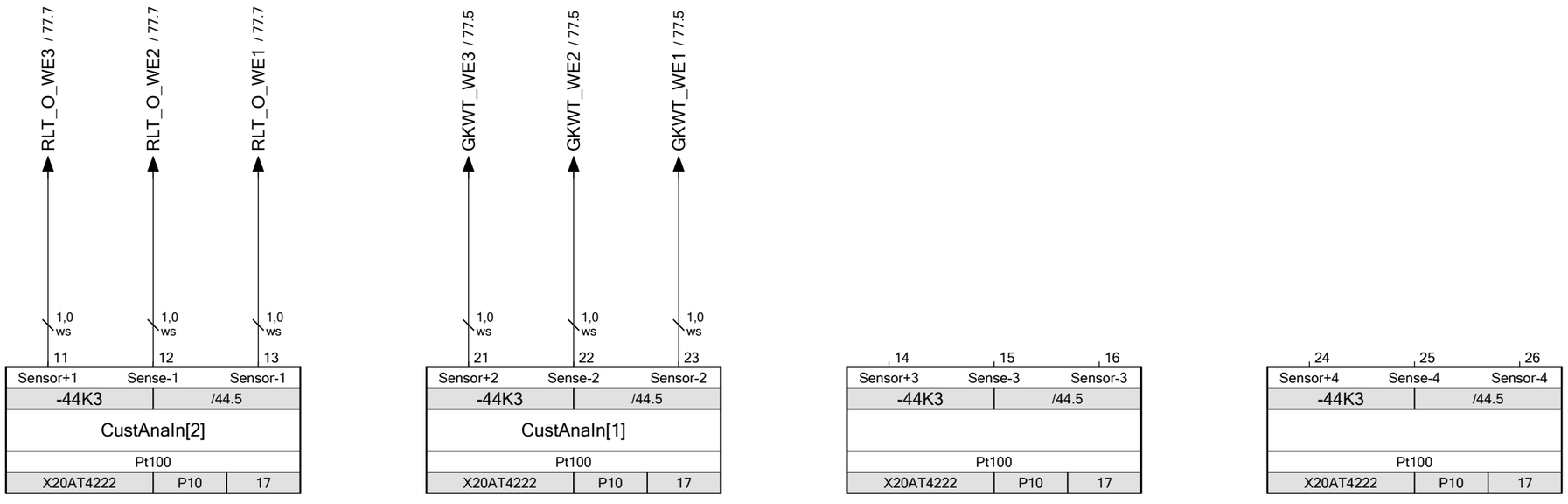
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 63
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric B SGMACRO\A1_1065.emp			



Temperature di ritorno Uscita
Heating water return temperature Output

Acqua raffreddamento carica Temperatura Cliente
Charge cooling water Temperature Customer

Riserva
Spare

Riserva
Spare

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 64
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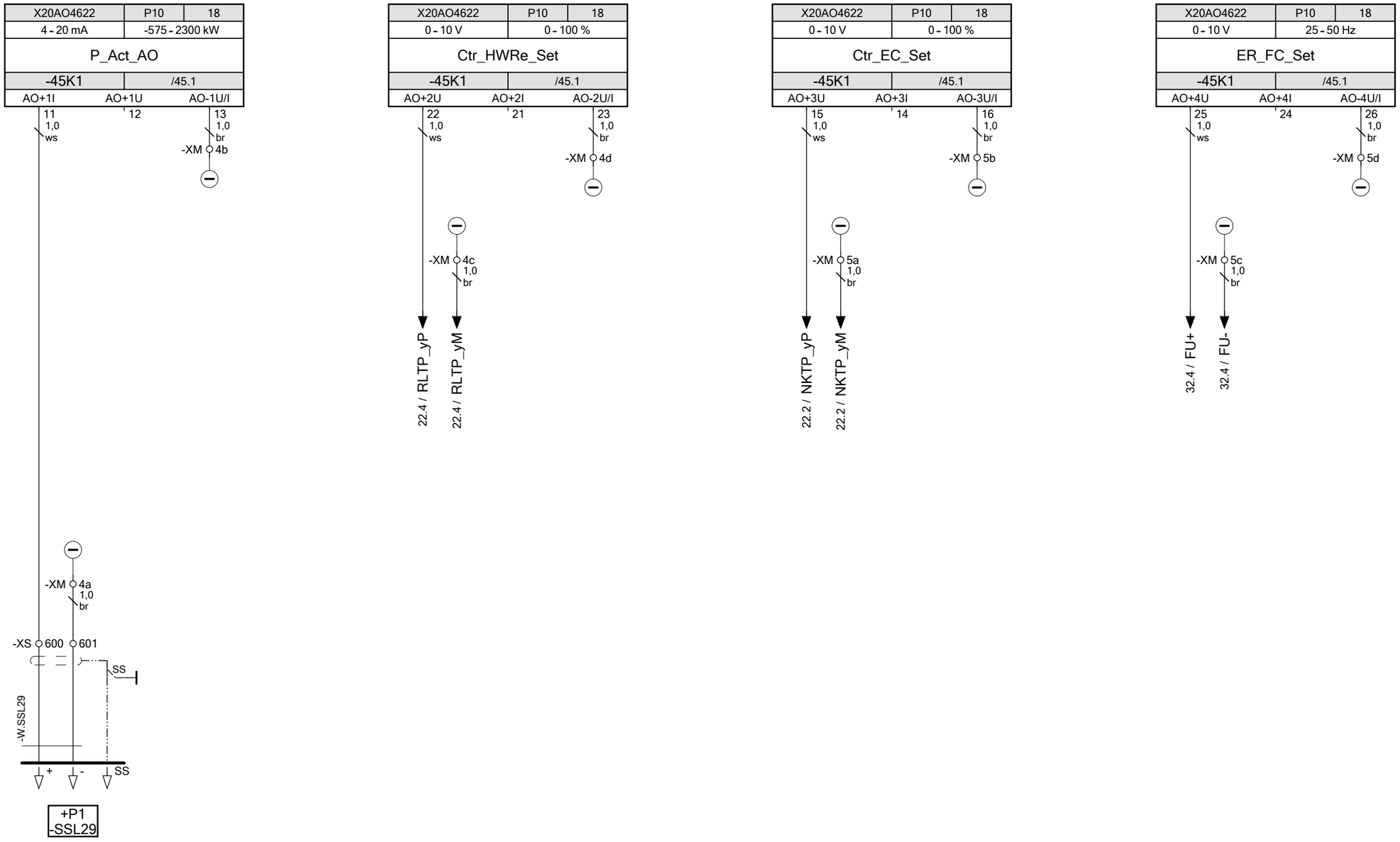

0 - 20 mA =
-575- 2300kW

Potenza attiva del alternatore
Generator active power

Valvola di regolazione: Temperature di ritorno
Regulator valve: Heating water return temperature

Valvola di regolazione Circuito di raffreddamento
Regulator valve Cooling circuit

Valore nominale: Convertitore frequenza Ventilatore aria
Set point: Frequency converter Room fans

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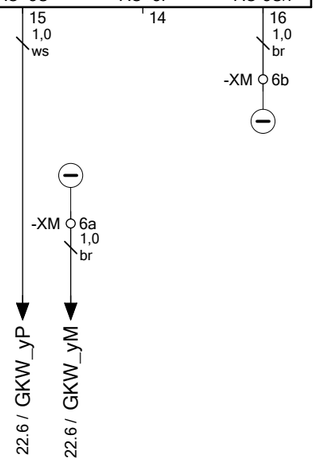
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 65
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1071.emp			

0	1	2	3	4	5	6	7	8	9

X20AO4622	P10	19
0 - 20 mA	- kW	
-45K2	/45.3	
AO+1I	AO+1U	AO-1U/I
11	12	13

X20AO4622	P10	19
4 - 20 mA	- Hz	
-45K2	/45.3	
AO+2I	AO+2U	AO-2U/I
21	22	23

X20AO4622	P10	19
0 - 10 V	0 - 100 %	
-45K2	/45.3	
AO+3U	AO+3I	AO-3U/I
15	14	16



X20AO4622	P10	19
4 - 20 mA	- Hz	
-45K2	/45.3	
AO+4I	AO+4U	AO-4U/I
24	25	26

Riserva
Spare

Riserva
Spare

Riserva
Spare

Riserva
Spare

65

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 66
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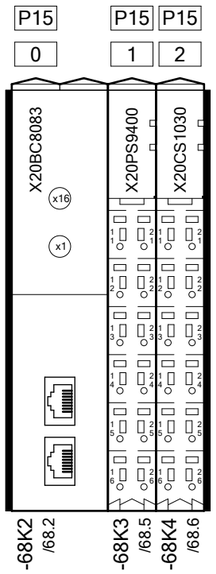

BUS-CONTROLLER

Modulo di alimentazione
Supply module
MODBUS-RTU-INTERFACE

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 67
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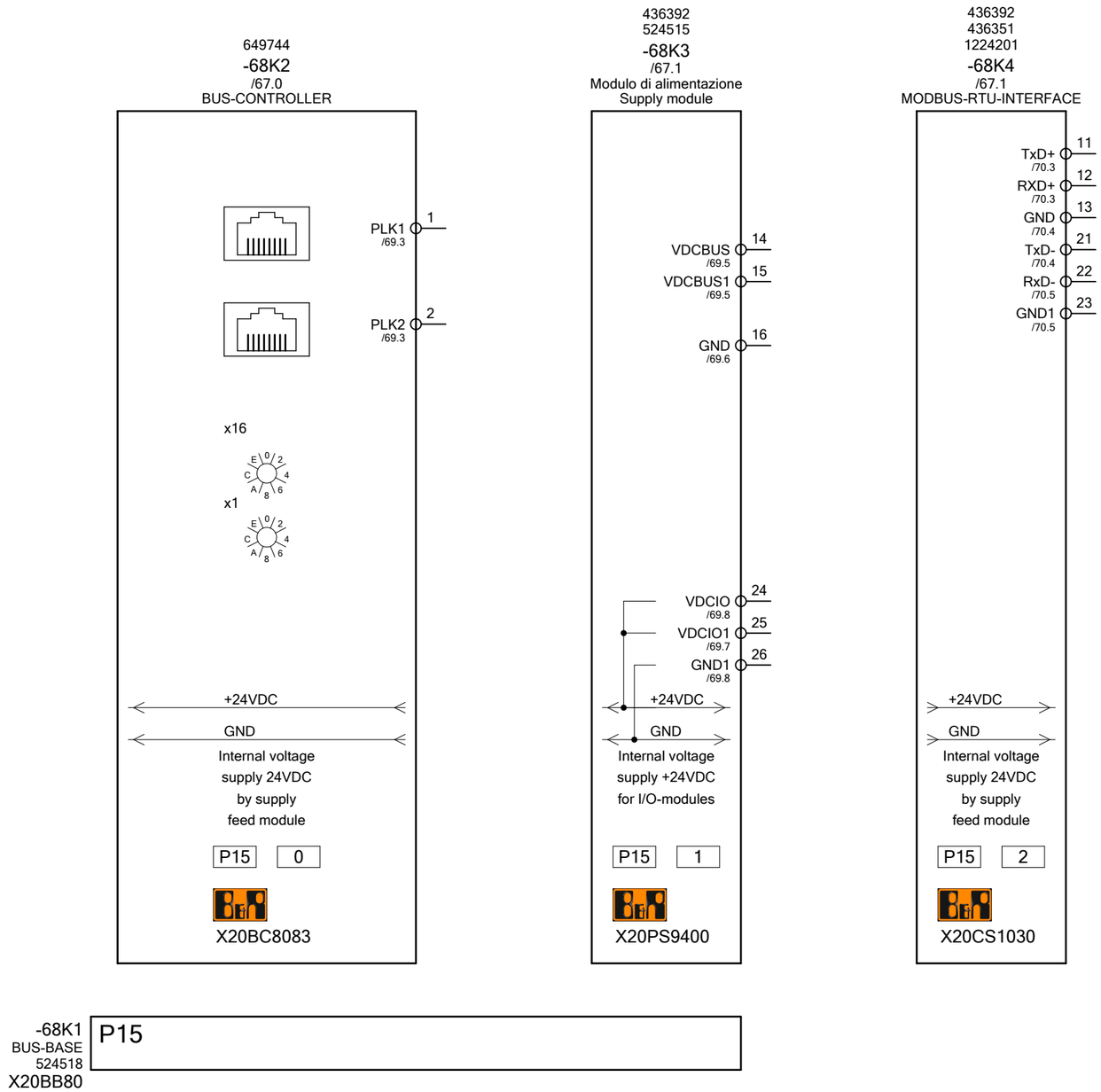

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			Desig.	Streiter Daniela				Suffix	+ A1
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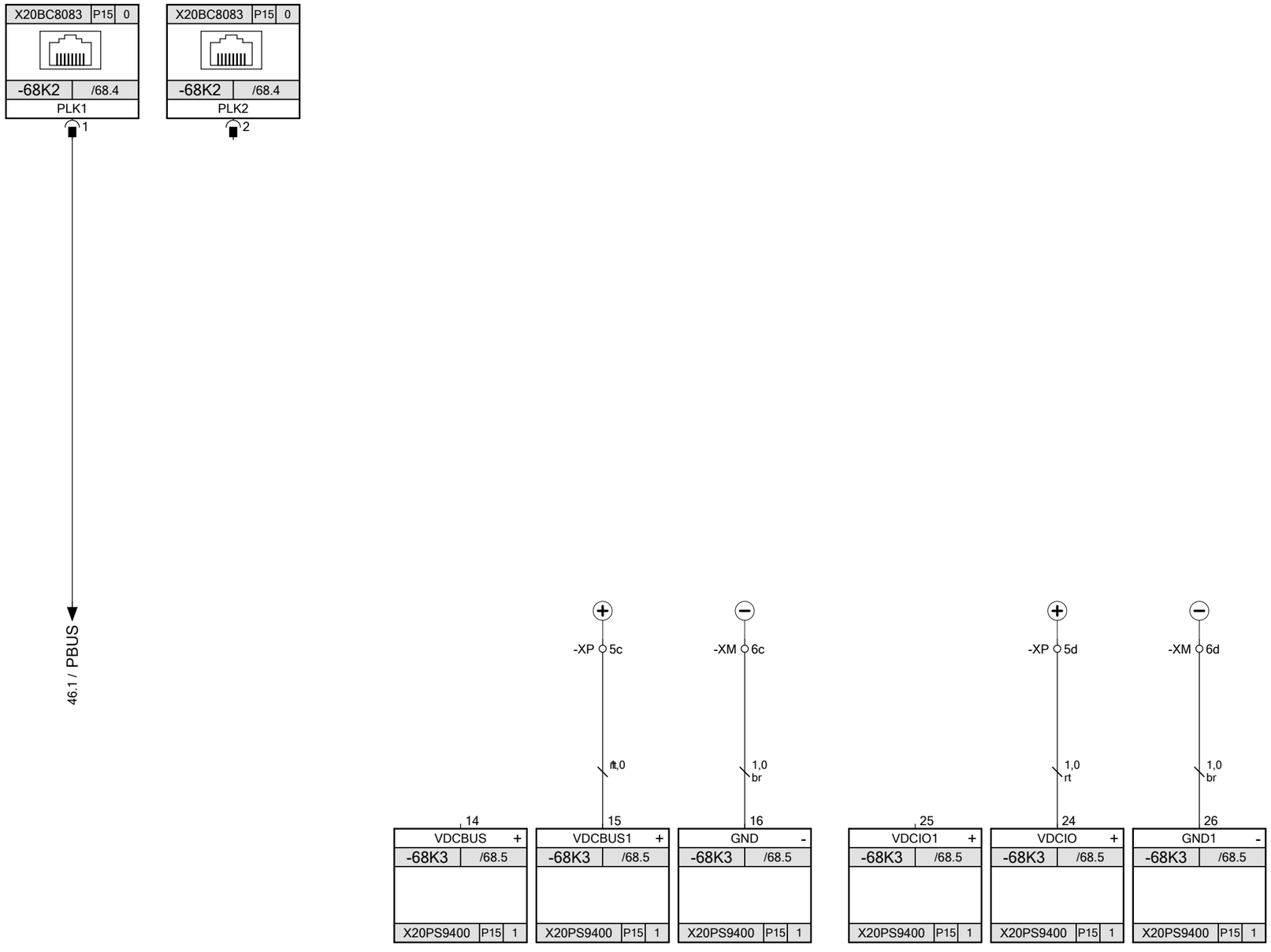

Riserva
Spare

P10 (Quadro comando gruppo)
P10 (Module control panel)

Alimentazione PLC
Supply PLC

Alimentazione PLC
Supply PLC

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			Desig.	Streiter Daniela				Suffix	+ A1
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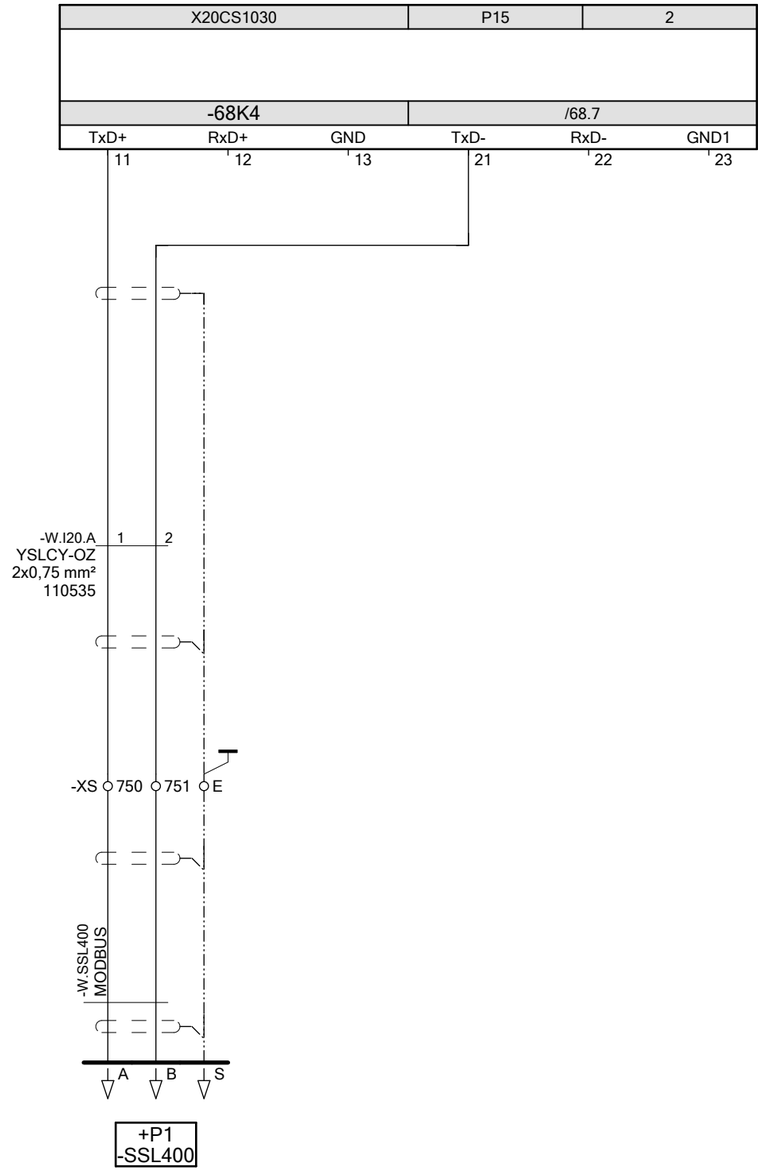

Il committente è tenuto a produrre una compensazione di potenziale tra il comando GE Jenbacher e il computer locale.
Equipotential bonding must be effected by the customer between the GE Jenbacher control system and the customer computer

MODBUS-RTU --> Modulo 2
MODBUS-RTU --> Module 2

MODBUS-RTU Interfaccia
MODBUS-RTU Interface

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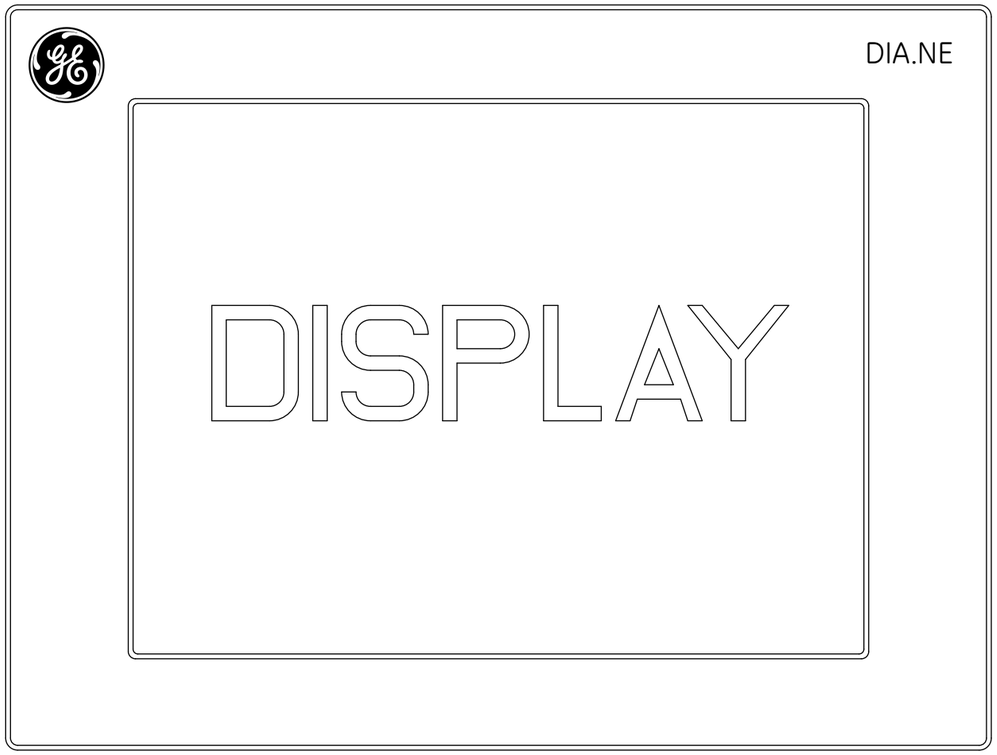

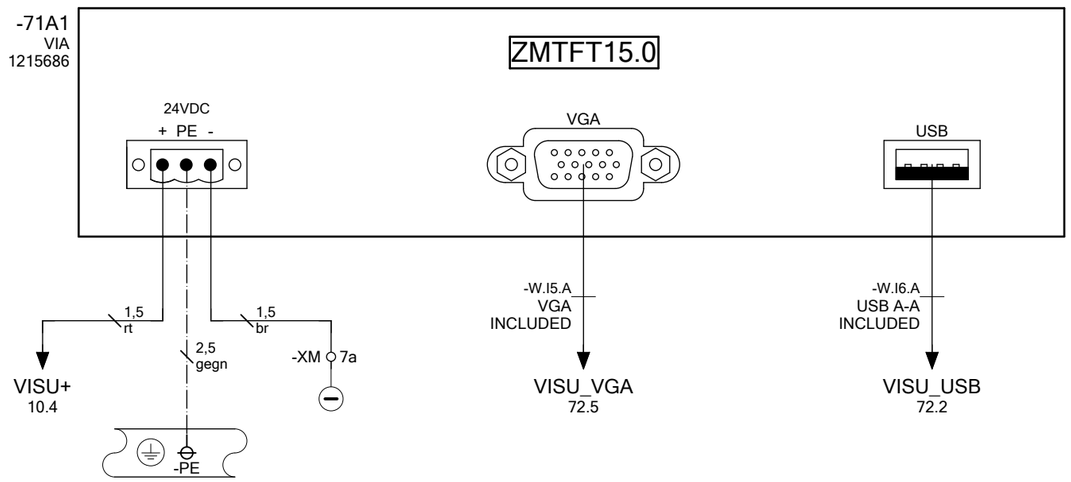

Visualizzazione: Schermo
Visualisation: Display

Alimentazione
Supply

Visualizzazione: Touch-Comandi
Visualisation: Touch-Commands

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 71
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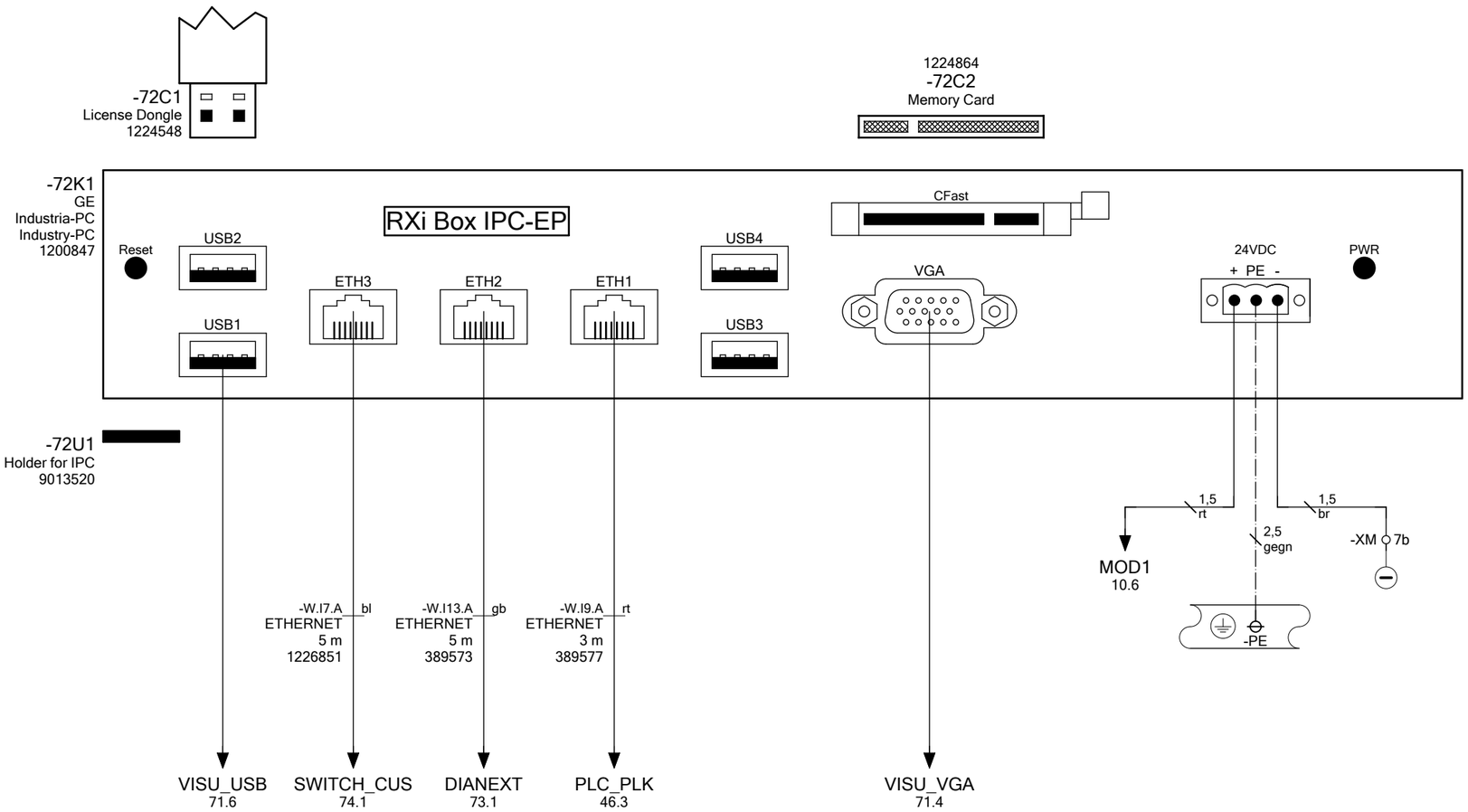

SWITCH Cliente
SWITCH Customer

PLC POWERLINK
PLC POWERLINK

Alimentazione
Supply

Visualizzazione: Touch-Comandi
Visualisation: Touch-Commands

SWITCH DIA.NE

Visualizzazione: Schermo
Visualisation: Display

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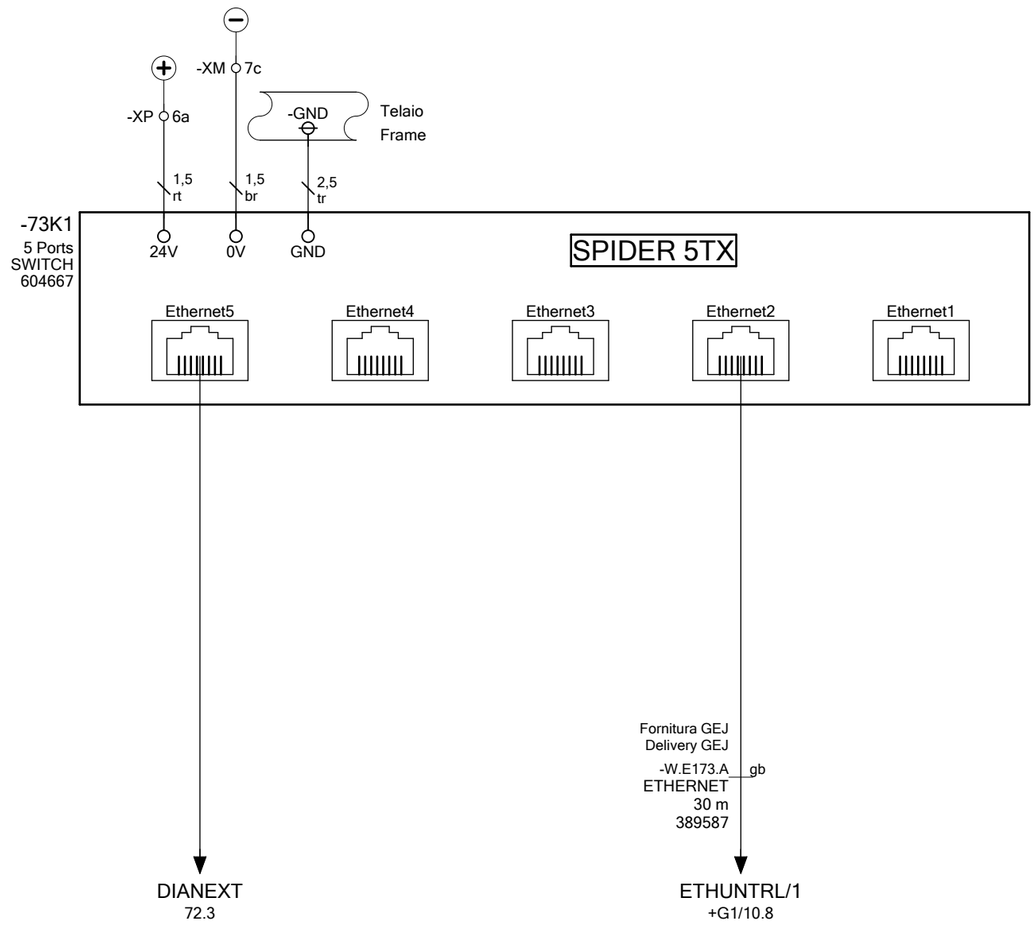
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 72
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1250_2.emp			



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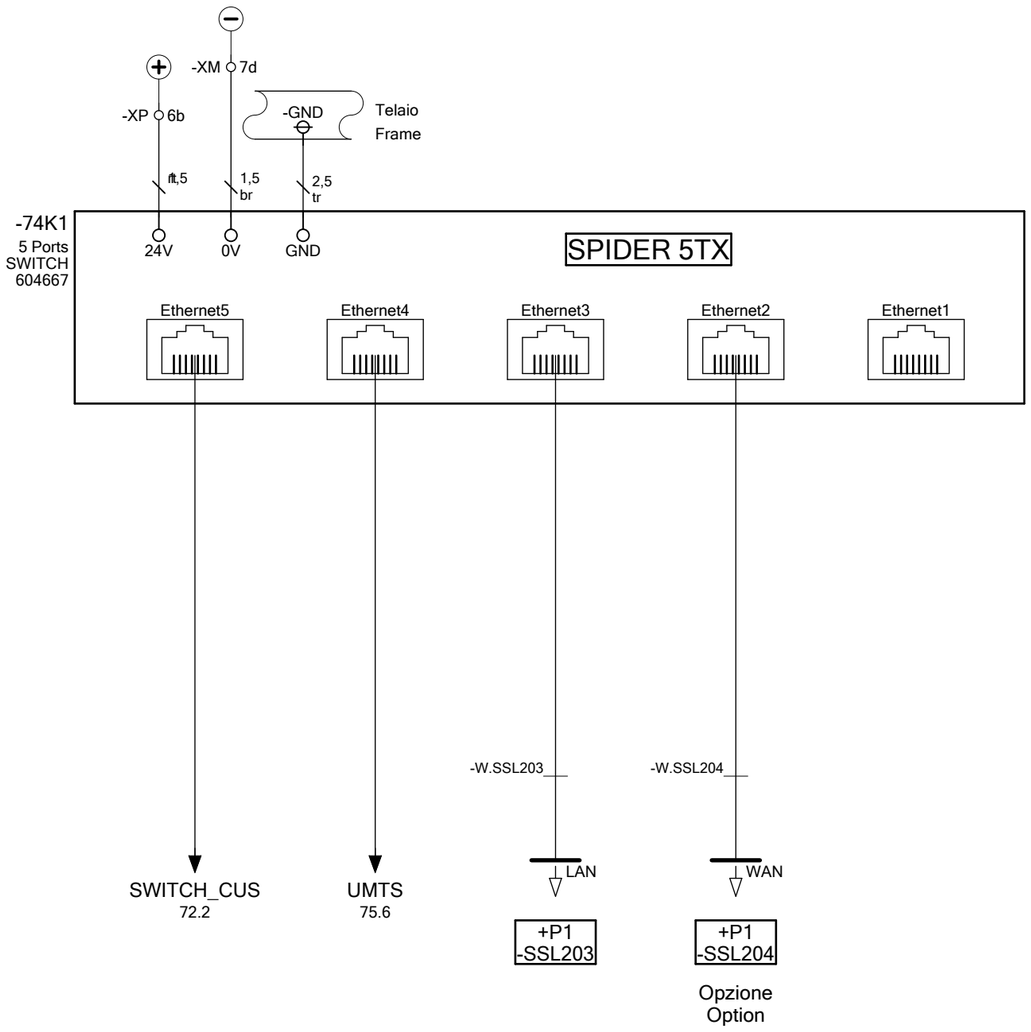
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	SWITCH DIA.NE SWITCH DIA.NE	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 73
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1251.emp			



UMTS-Router

INTERNET Collegamento
INTERNET Connection

DIA.NE XT
DIA.NE XT

Rete cliente
Customer network

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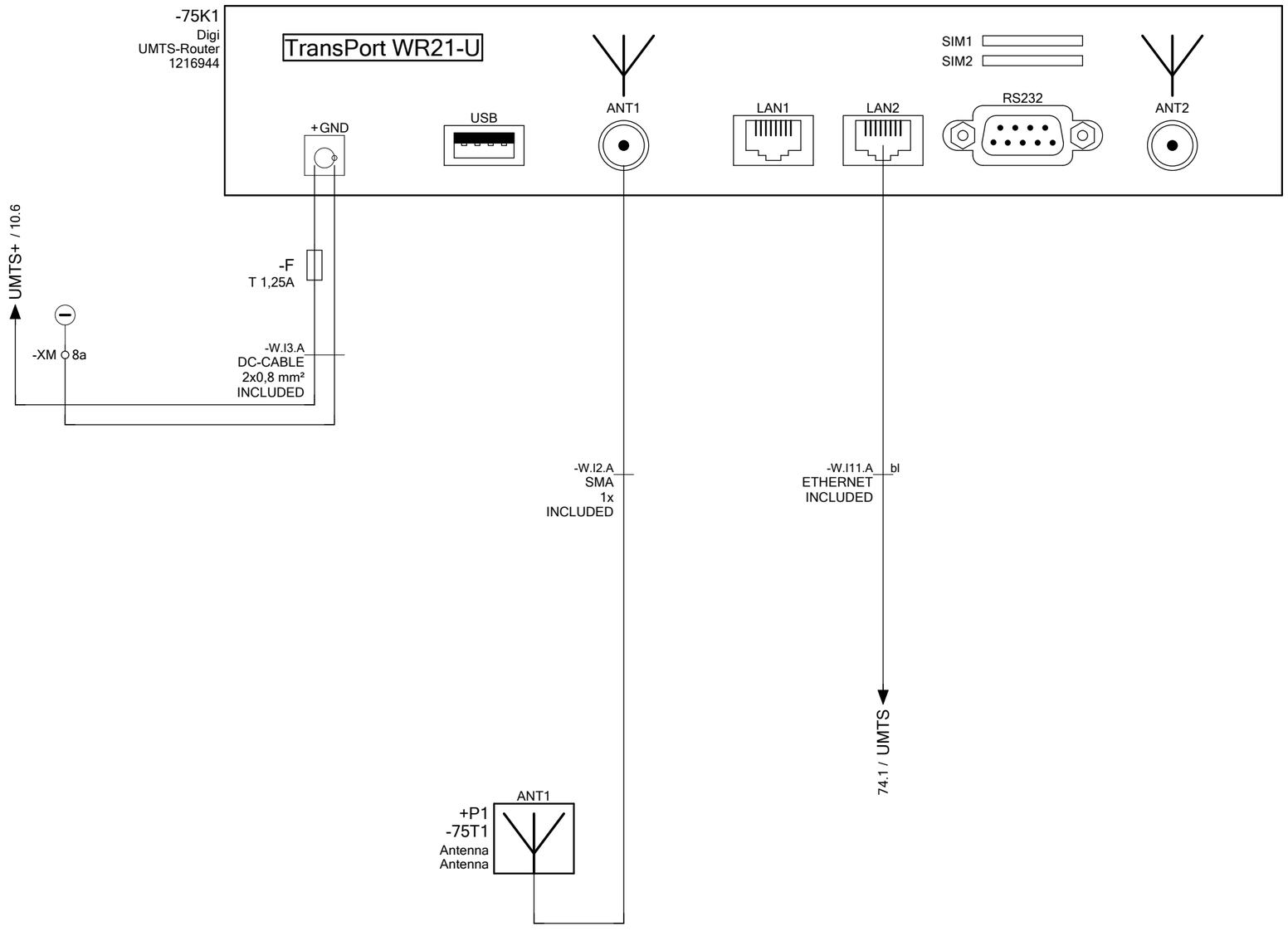
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	SWITCH Cliente SWITCH Customer	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 74
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1251_1.emp			



SWITCH DIA.NE

UMTS-Router

INTERNET Collegamento
INTERNET Connection

Riserva
Spare

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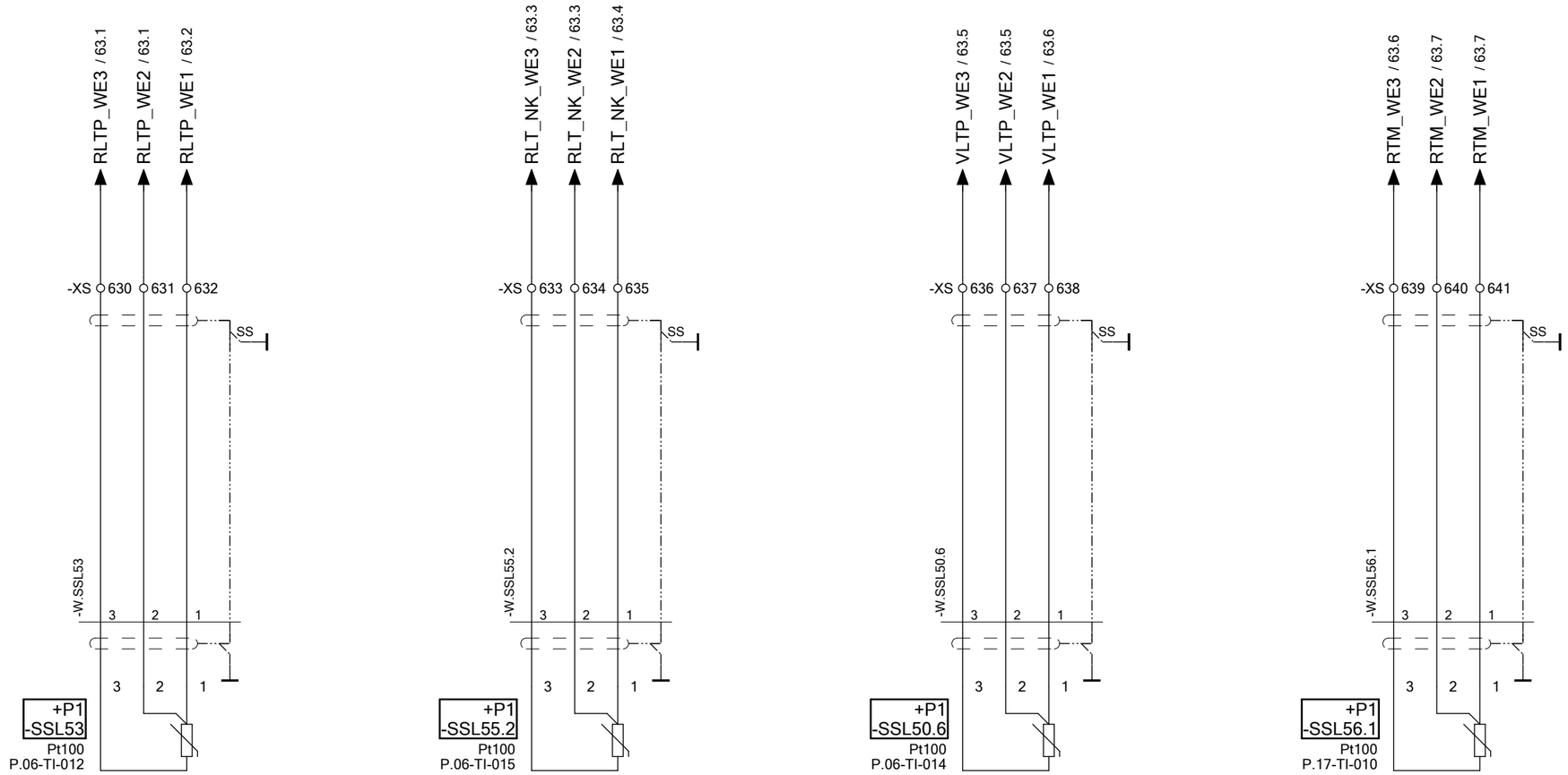
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	UMTS-Router	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 75
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1251_2.emp			



Temperature di ritorno
Heating water return temperature

Temperatura ritorno a valle di refrigeratore
Return temperature after cooler

Temperatura mandata
supply temperature

Temperatura de la sala
Room temperature

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sonda termica Temperature sensor	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 76
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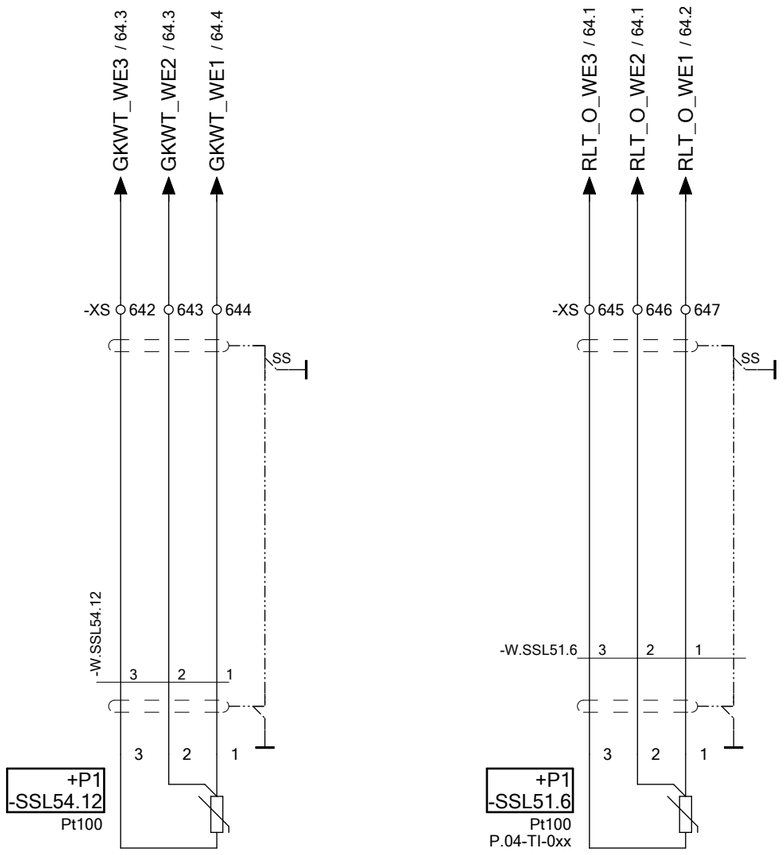

Temperature di ritorno Uscita
Heating water return temperature Output

Acqua raffreddamento carica Temperatura
Charge cooling water Temperature

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 77
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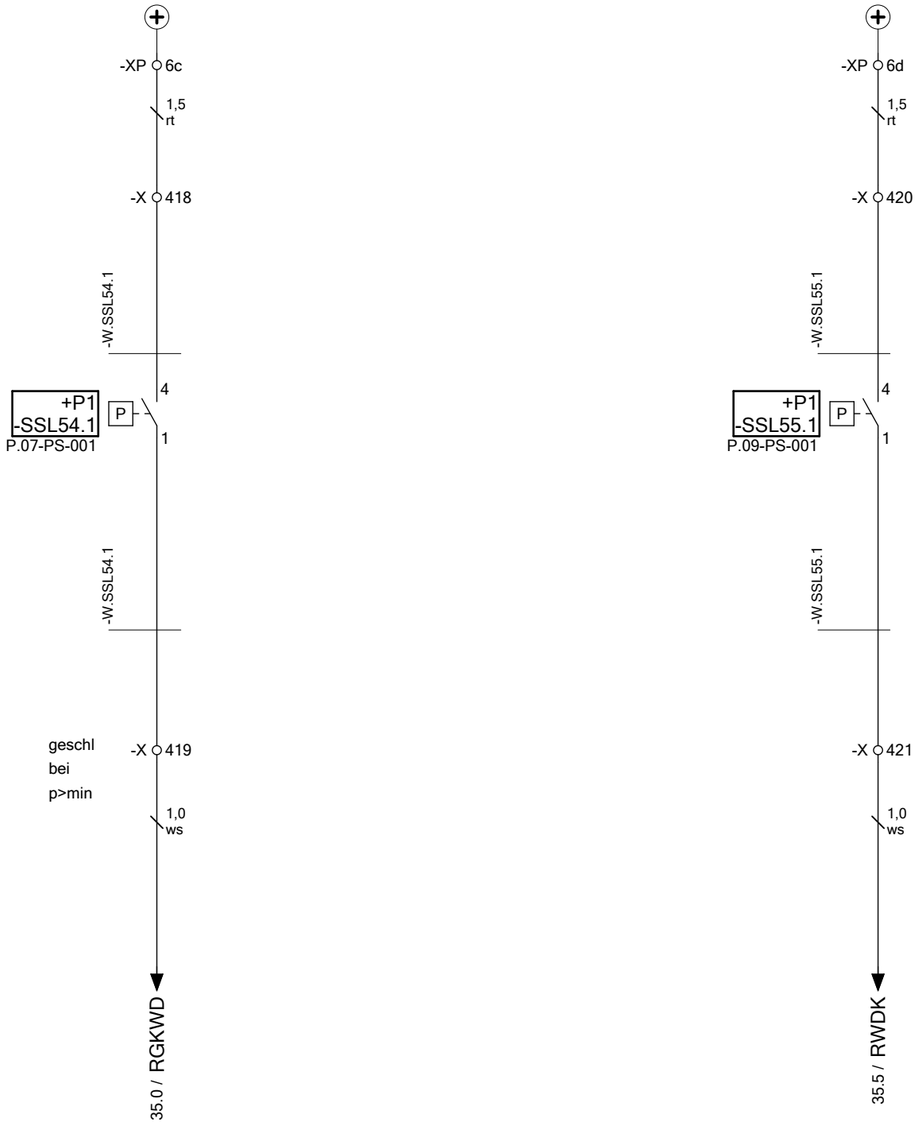

Pressione acqua raffreddamento carica min
Charge cooling water pressure min

Pressione min: Circuito di raffreddamento
Pressure min: Cooling circuit

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Circuito di raffreddamento / Circuito carica Cooling circuit / Charge circuit	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 78
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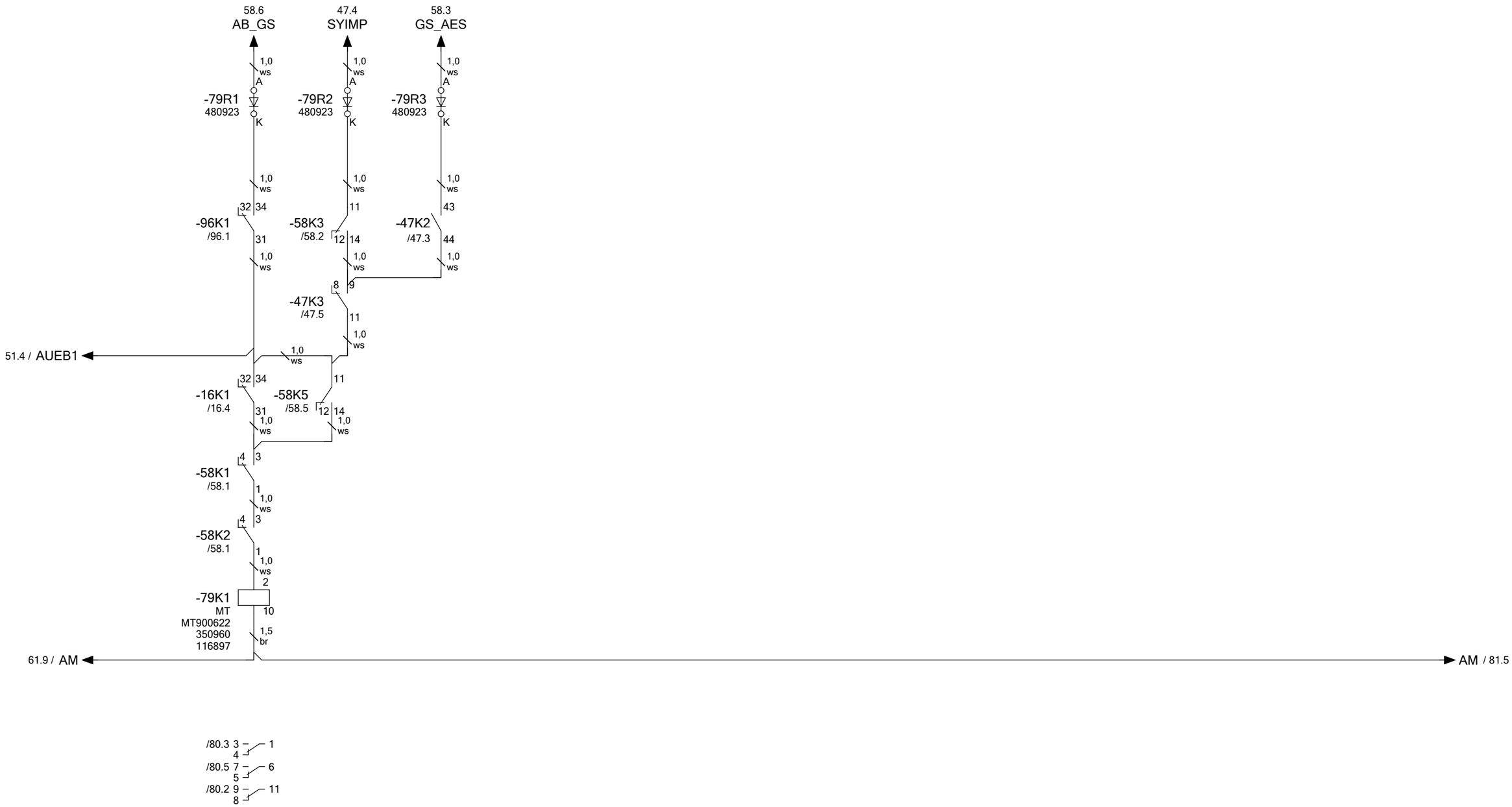

Comando: Interruttore alternatore: on/off
Command: Generator circuit breaker: on/off

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Comando Interruttore alternatore Control Generator circuit breaker	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 79
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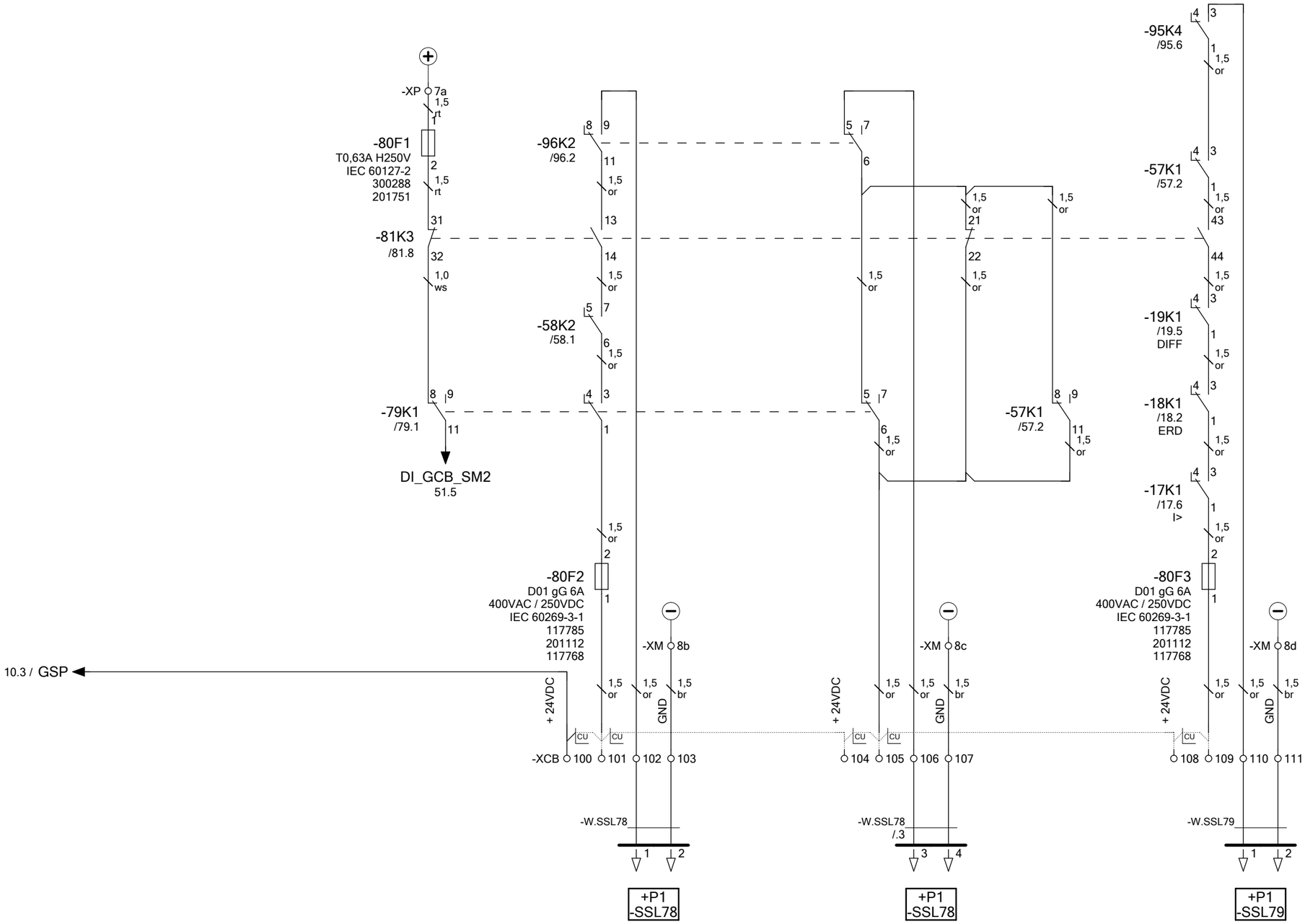

Interruttore alternatore Bobina di chiusura
Generator circuit breaker Switch on coil

Interruttore alternatore Bobina di min. tensione
Generator circuit breaker Under voltage trip coil

Rele: Sorveglianza Interruttore alternatore
Relay: Monitoring Generator circuit breaker

Interruttore alternatore Sganciatore di lavoro
Generator circuit breaker Shunt trip coil

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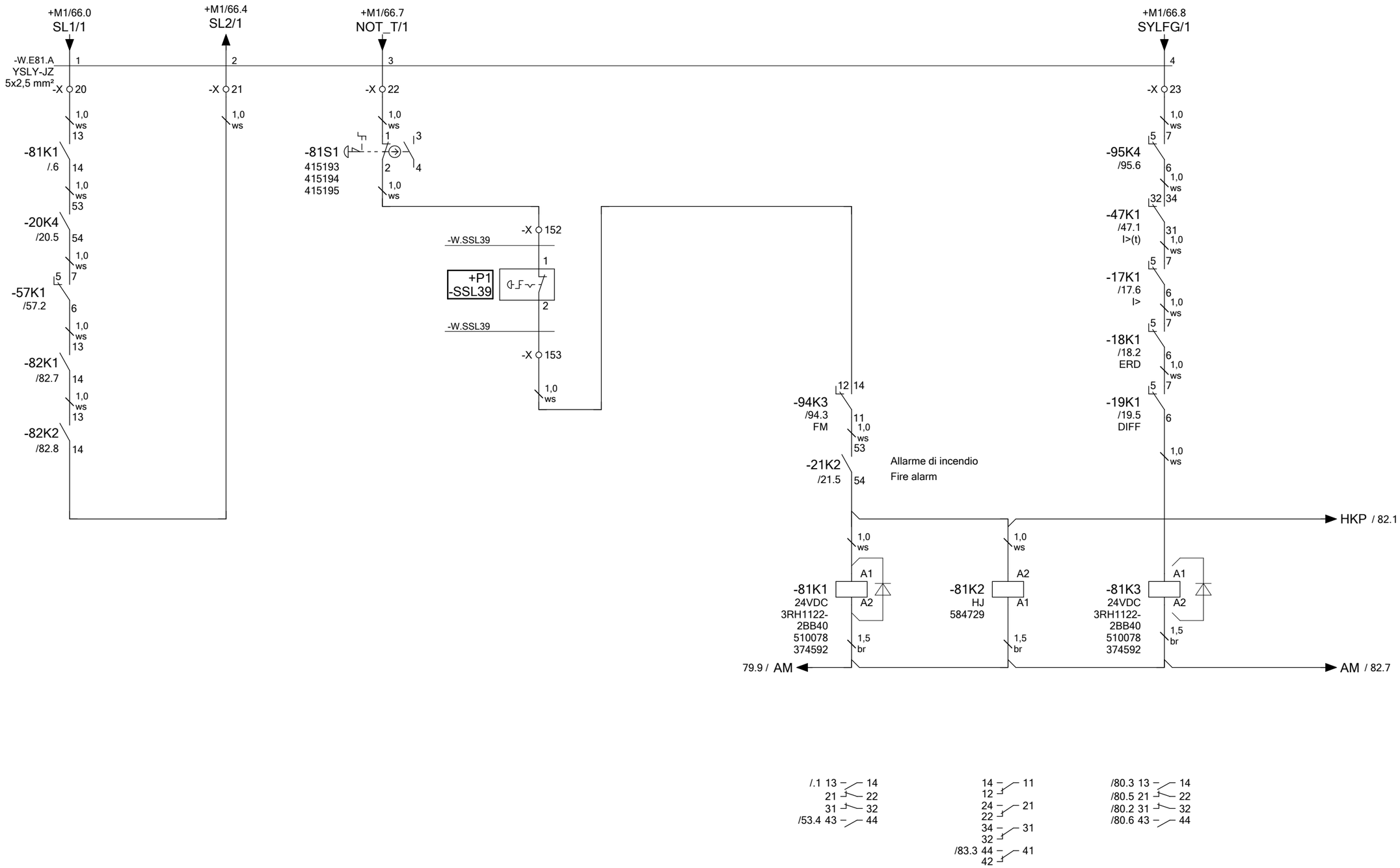
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Comando Interruttore alternatore Control Generator circuit breaker	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 80
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric SGMACRO\A1_1366.emp			



Arresto di emergenza
Emergency stop

Arresto di emergenza Tasto
Emergency stop Push button

Arresto di emergenza
Emergency stop

Consenso: Sincronizzazione / Carica
Release: Synchronisation / Load

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Arresto di emergenza Emergency stop	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 81
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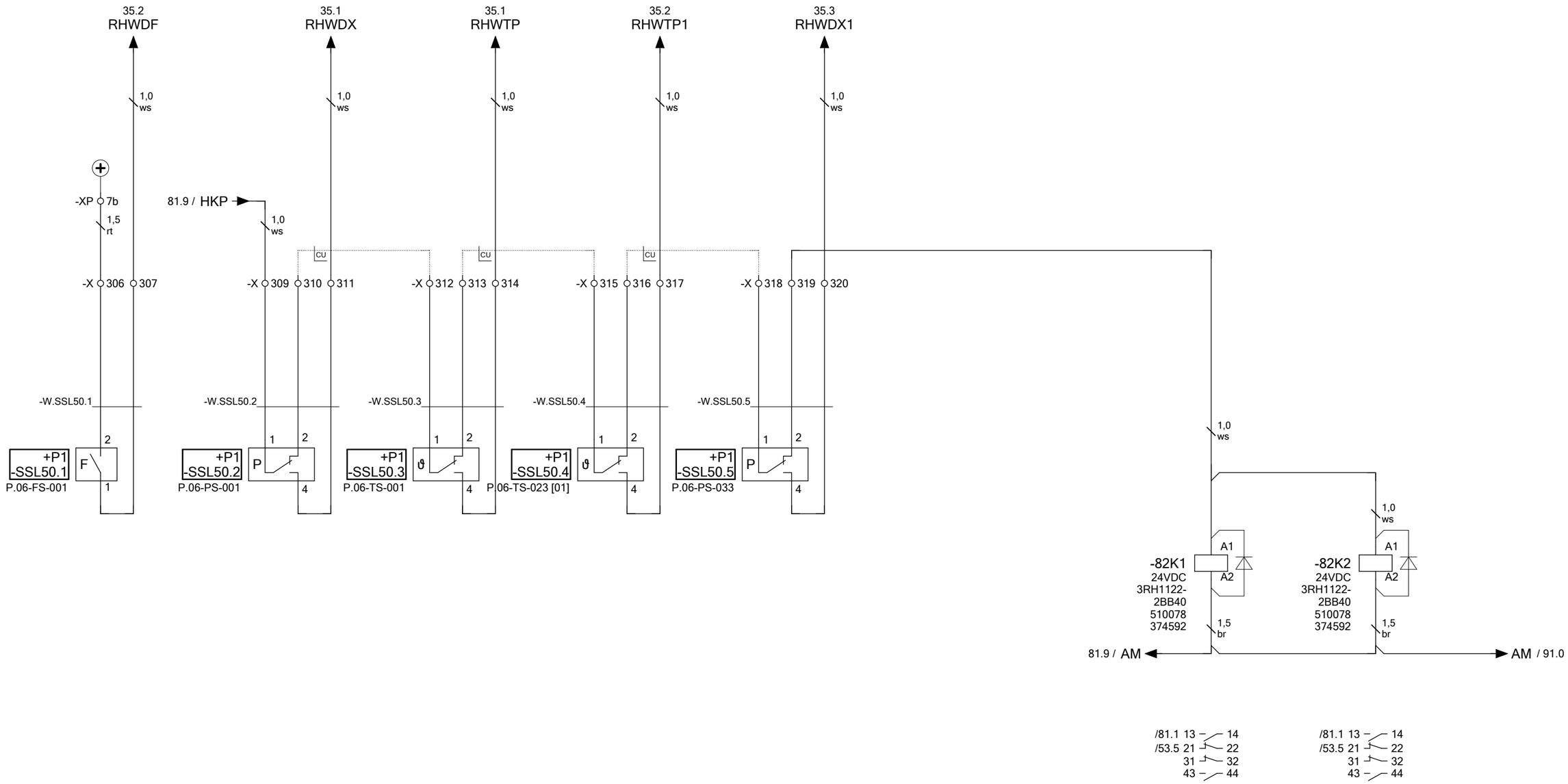

Press. acqua calda massima
Hot water pressure max

Temp. acqua calda massima 2
Hot water temperature max 2

Portata acqua calda esiste
Hot water flow existing

Temp. acqua calda massima
Hot water temperature max

Press. acqua calda massima 2
Hot water pressure max 2

Sorveglianza Sistema riscaldamento
Monitoring Hot water loop

			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Sorveglianza: Sistema riscaldamento Monitoring: Hot water loop	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 82
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric SGMACRO\A1_1482.emp			

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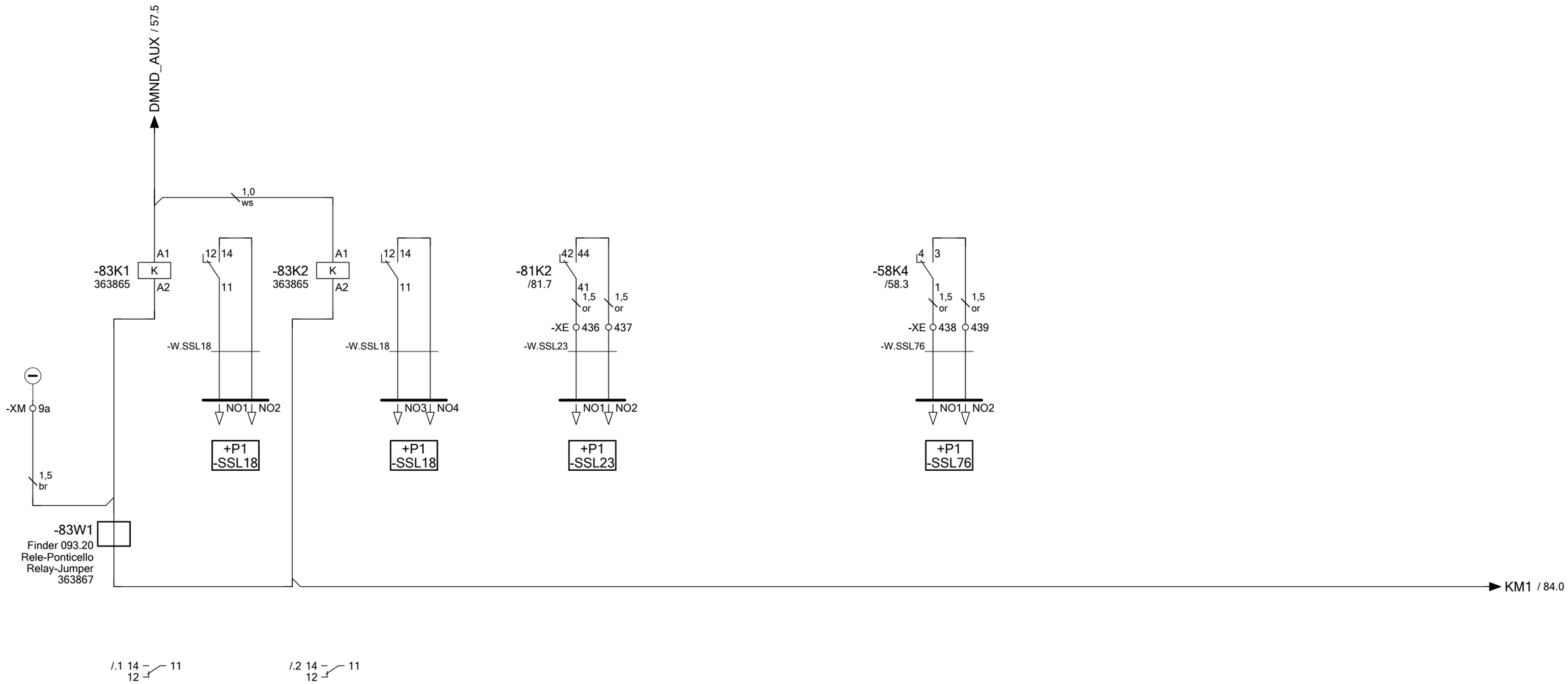
massima. Carica del contatto:
max. Contact load:

24VDC, 5A / 230VAC, 5A



Richiesta Ausiliari
Demand Auxiliaries

Richiesta Ausiliari
Demand Auxiliaries

Arresto di emergenza
Emergency stop

Disturbo disinserzione Interruttore
alternatore
opening failure Generator circuit breaker

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 83
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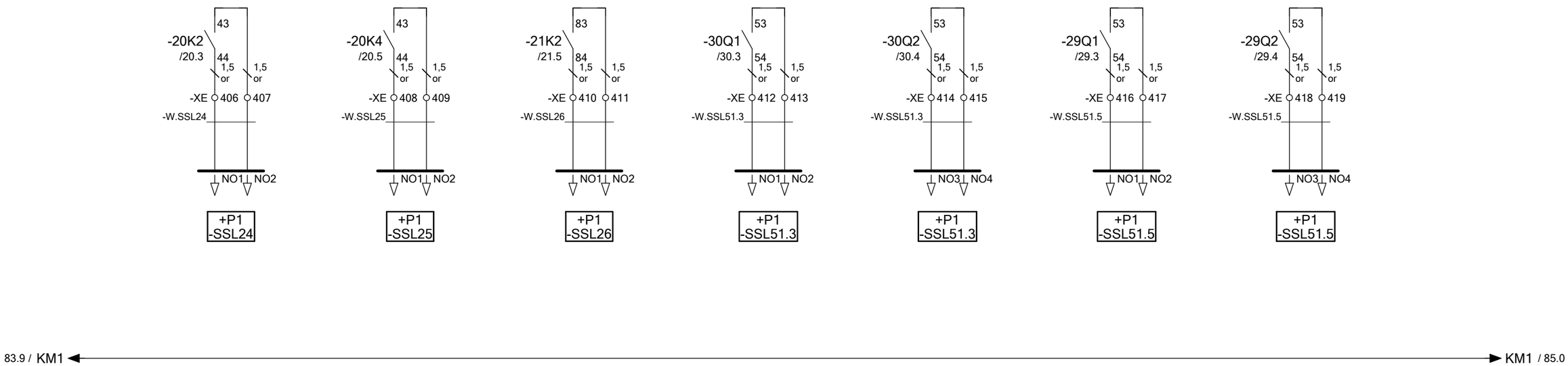

Allarme di gas
Gas alarm

Richiesta Valvola caldaia aperto
Demand Boiler flap open

Richiesta Valvola bypass aperto
Demand Bypass flap open

Preallarme gas
Gas prealarm

Allarme di incendio
Fire alarm

Richiesta Valvola caldaia chiuso
Demand Boiler flap closed

Richiesta Valvola bypass chiuso
Demand Bypass flap closed

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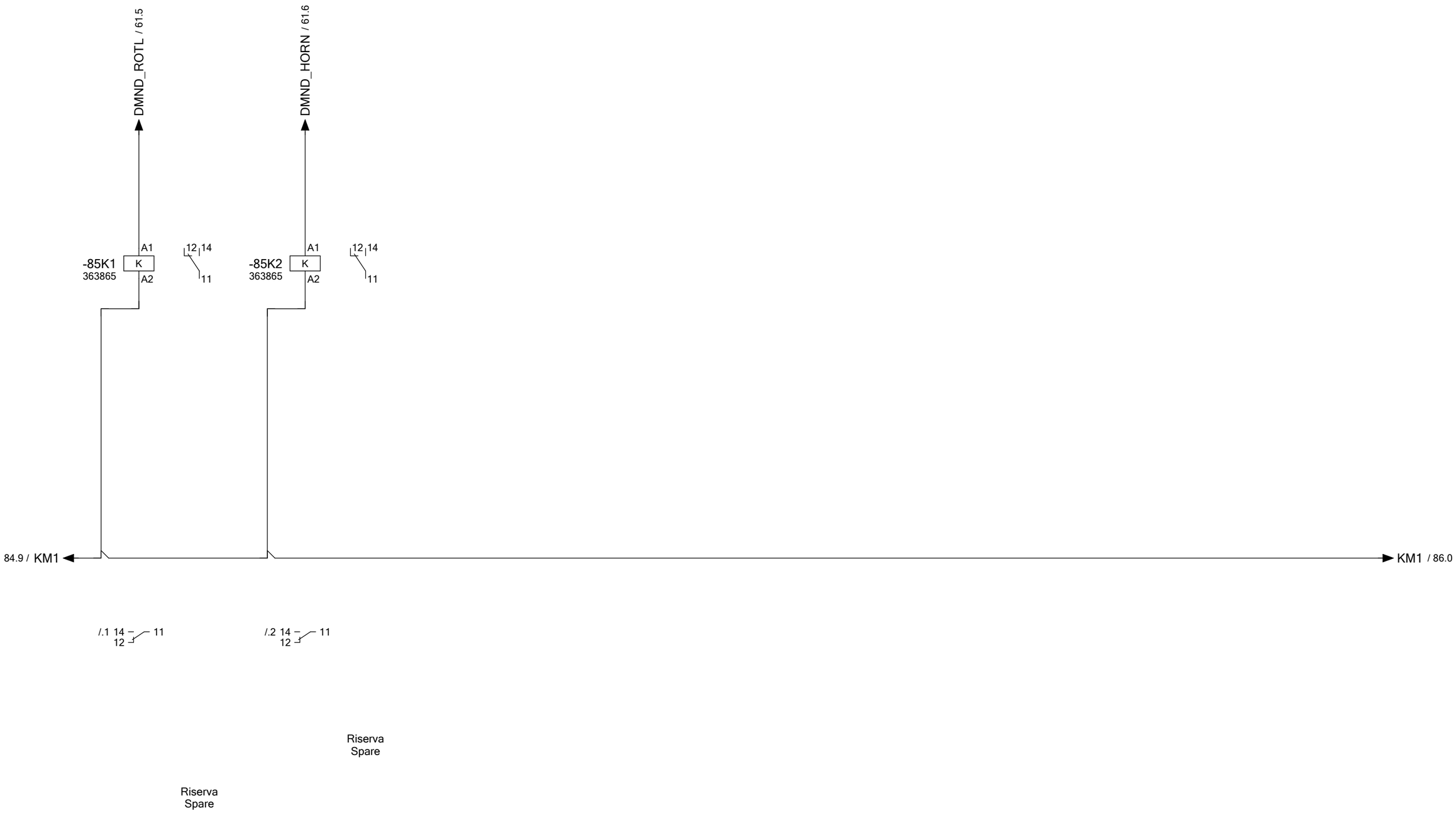

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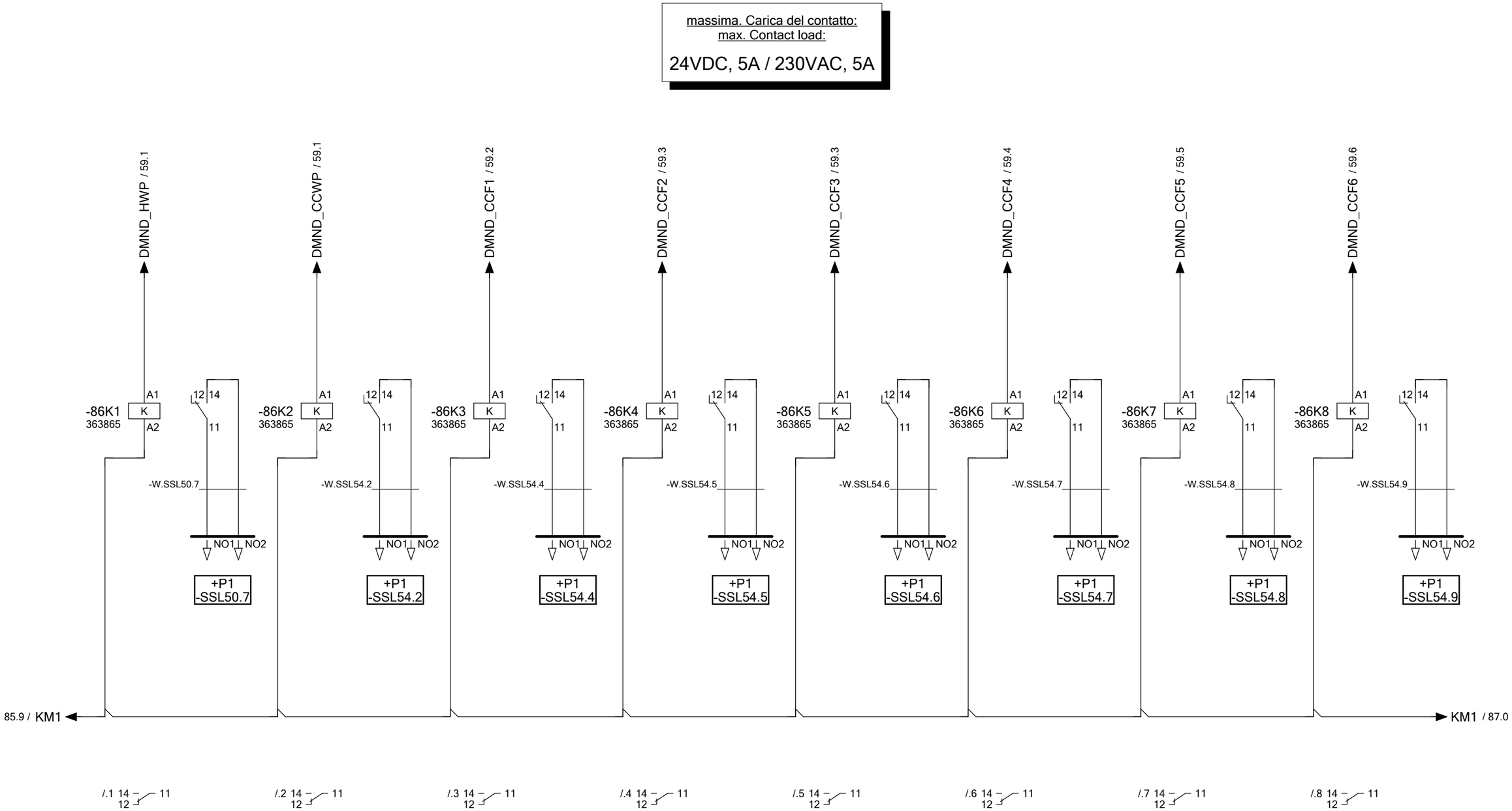

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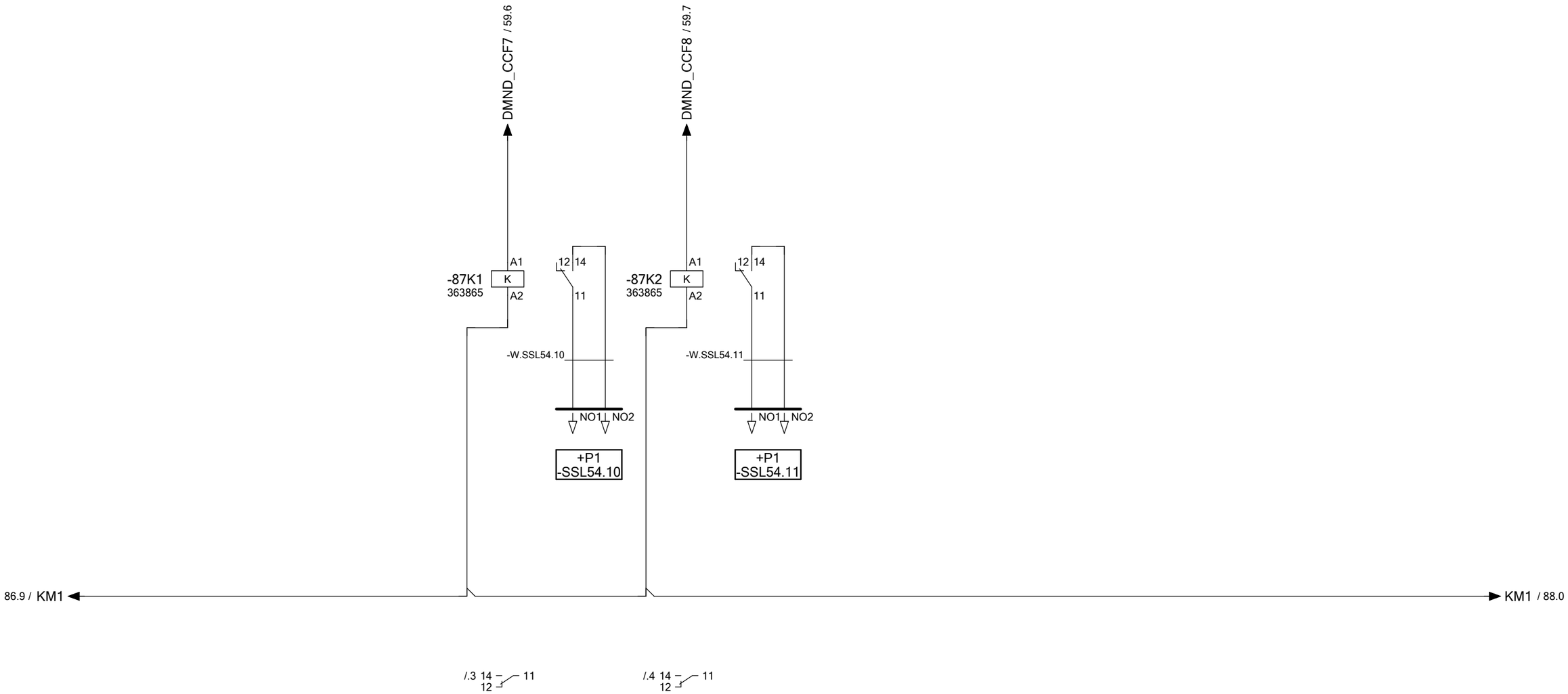
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1550.emp			

massima. Carica del contatto:
max. Contact load:

24VDC, 5A / 230VAC, 5A



Richiesta Ventilatore raffreddamento
carica 8
Demand Charge cooling fan 8

Richiesta Ventilatore raffreddamento
carica 7
Demand Charge cooling fan 7

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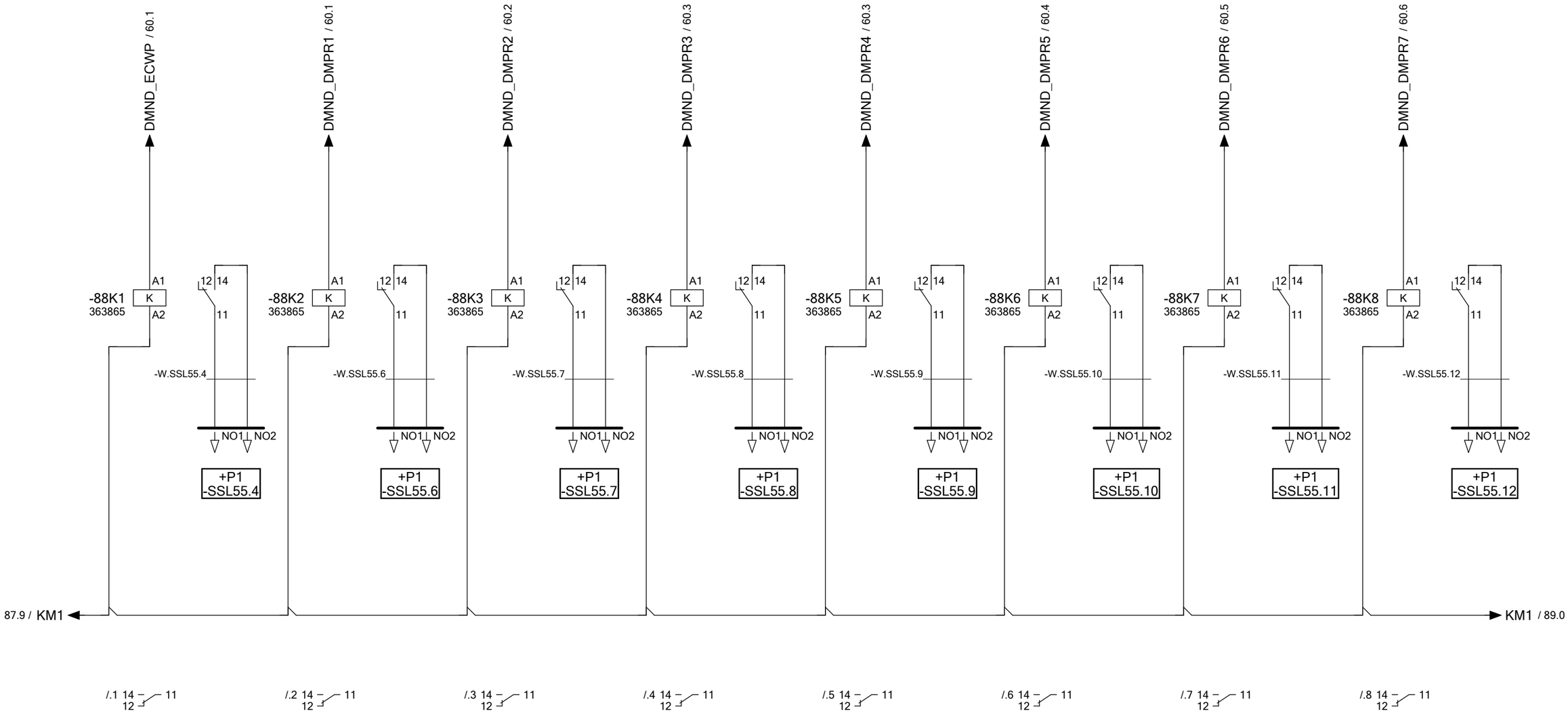
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Interfaccie: Jenbacher --> Cliente Interfaces: Jenbacher --> Customer	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 87
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1550.emp			

massima. Carica del contatto:
max. Contact load:

24VDC, 5A / 230VAC, 5A



Richiesta Ventilatore d'emergenza 1
Demand Dump radiator 1

Richiesta Ventilatore d'emergenza 3
Demand Dump radiator 3

Richiesta Ventilatore d'emergenza 5
Demand Dump radiator 5

Richiesta Ventilatore d'emergenza 7
Demand Dump radiator 7

Richiesta pompa dell'acqua di raffreddamento
Demand emergency cooling water pump

Richiesta Ventilatore d'emergenza 2
Demand Dump radiator 2

Richiesta Ventilatore d'emergenza 4
Demand Dump radiator 4

Richiesta Ventilatore d'emergenza 6
Demand Dump radiator 6

87 89

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 88
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0	1	2	3	4	5	6	7	8	9

massima. Carica del contatto:
max. Contact load:

24VDC, 5A / 230VAC, 5A

Richiesta Ventilatore d'emergenza 8
Demand Dump radiator 8

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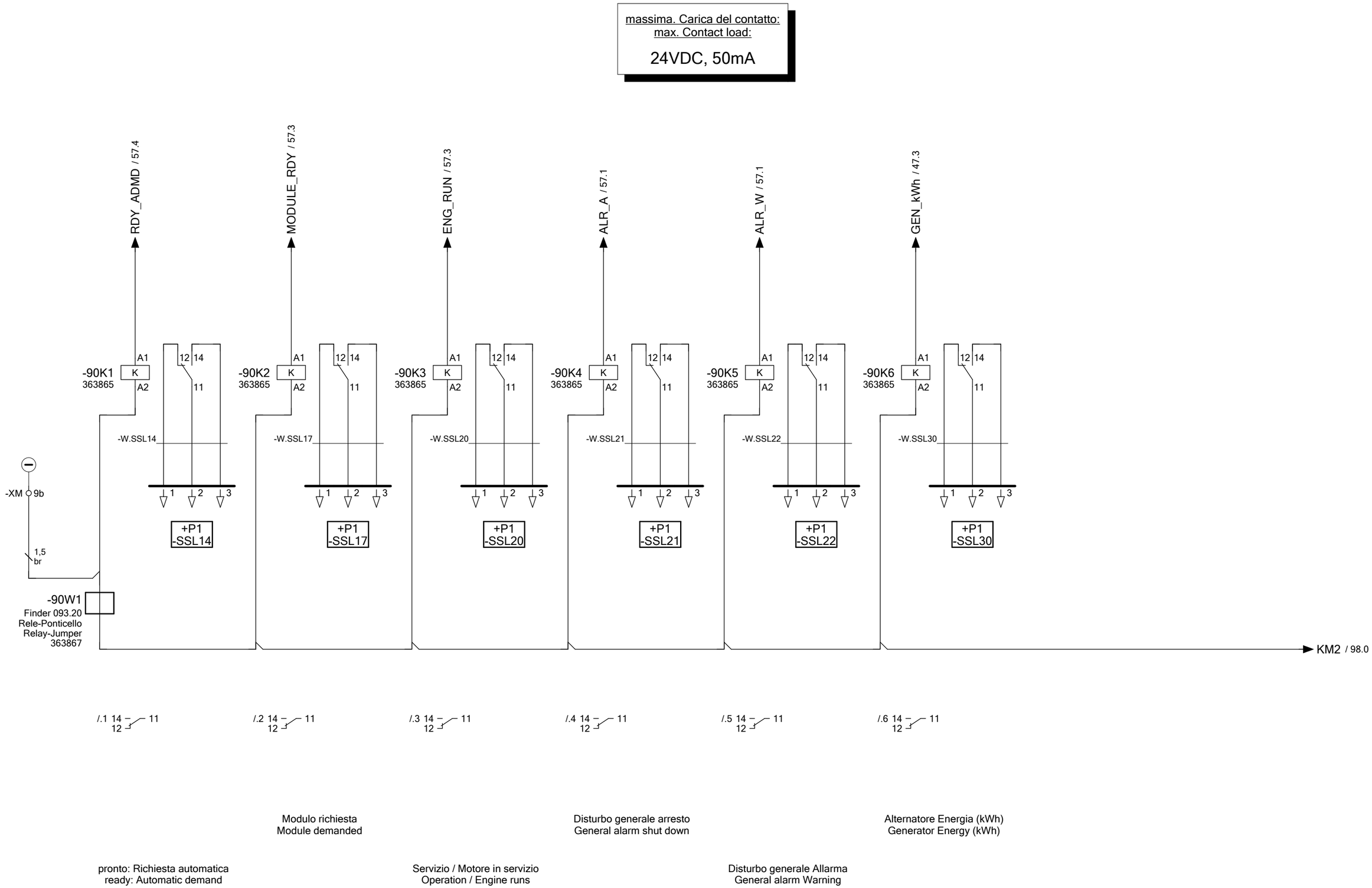
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 89
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1551_1.emp			



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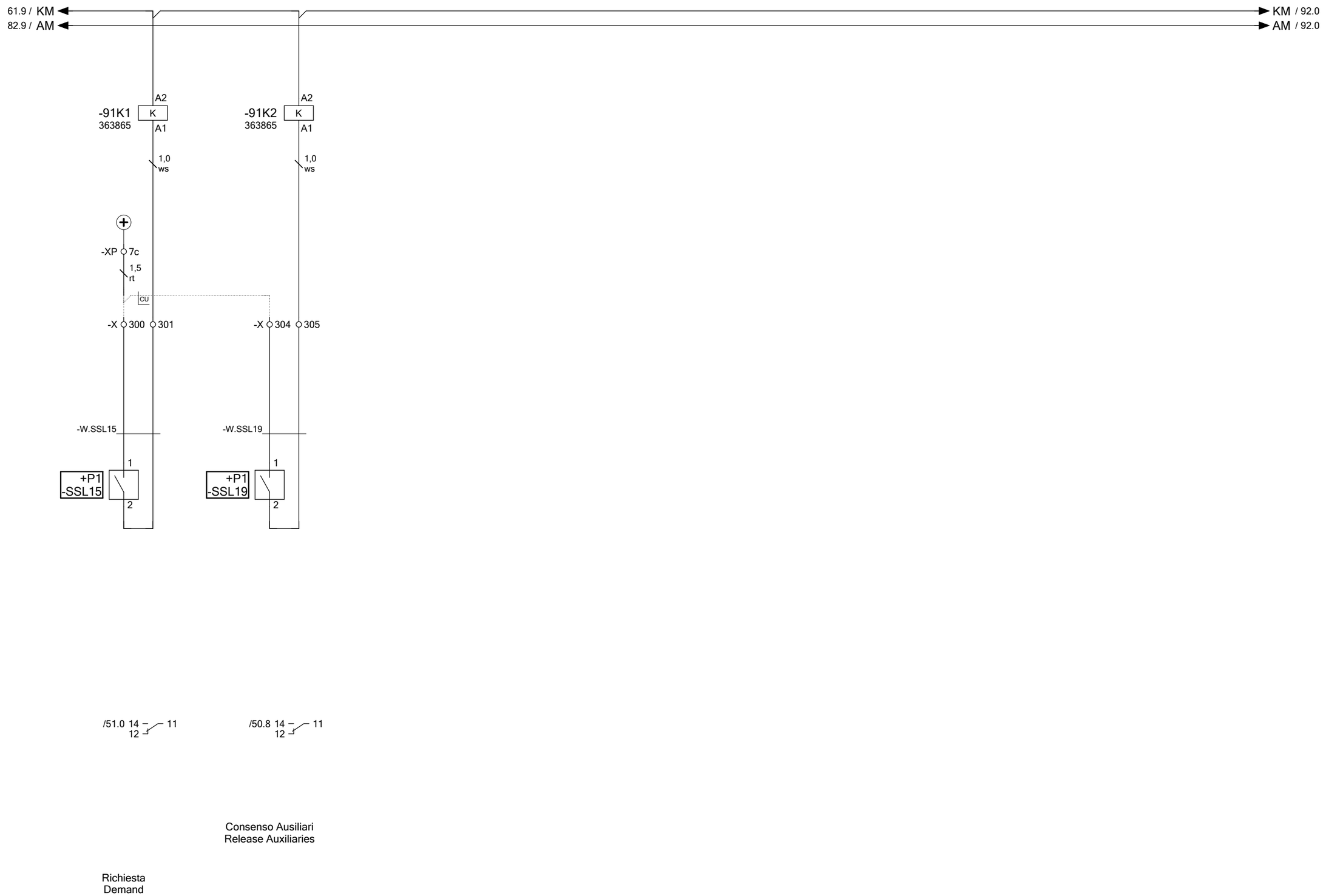
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 90
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_1580.emp			



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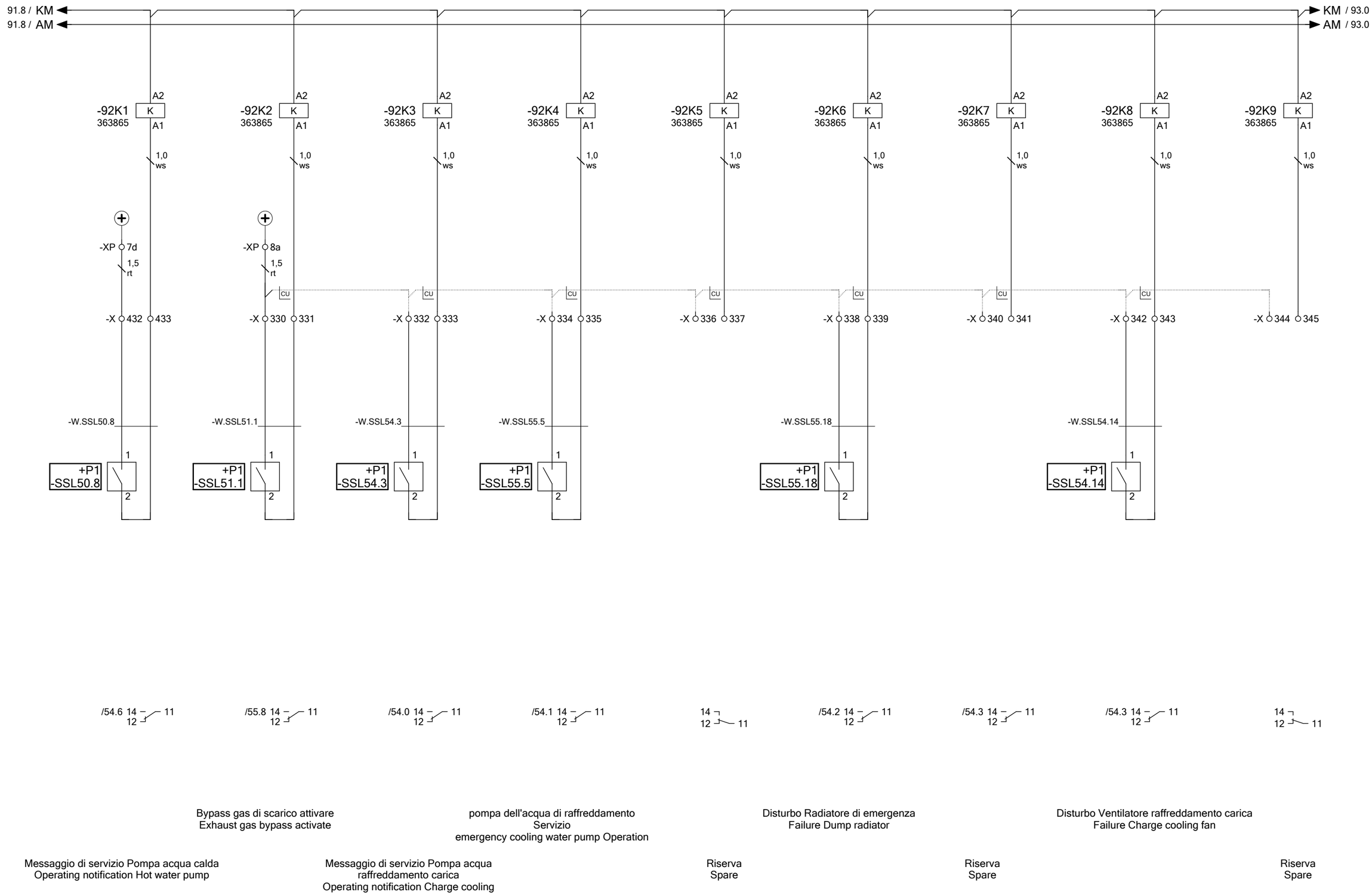
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Interfaccie: Cliente --> Jenbacher Interfaces: Customer --> Jenbacher	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 91
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_1601.emp			



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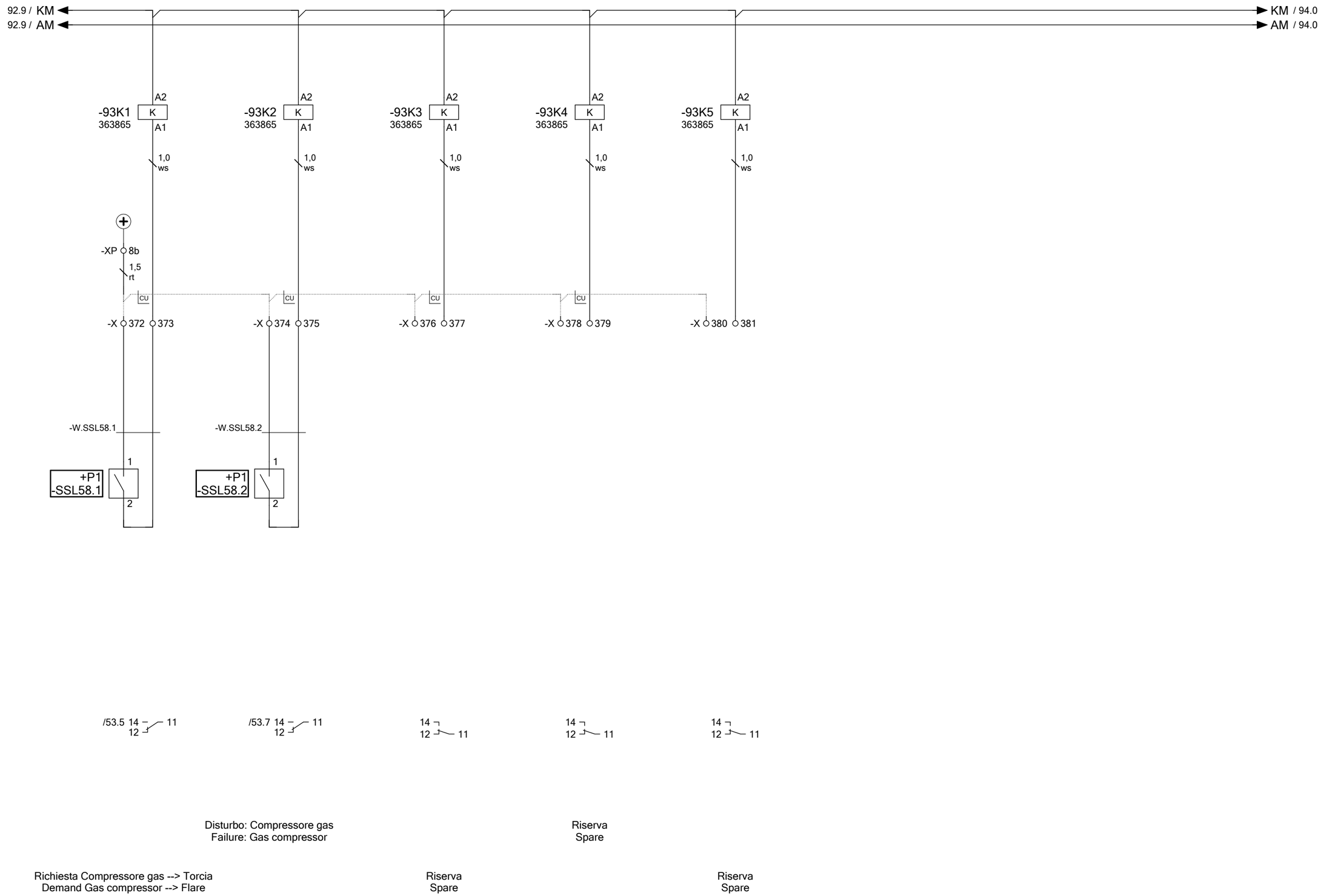
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Interfaccie: Cliente --> Jenbacher Interfaces: Customer --> Jenbacher	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 92
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_1608.emp			



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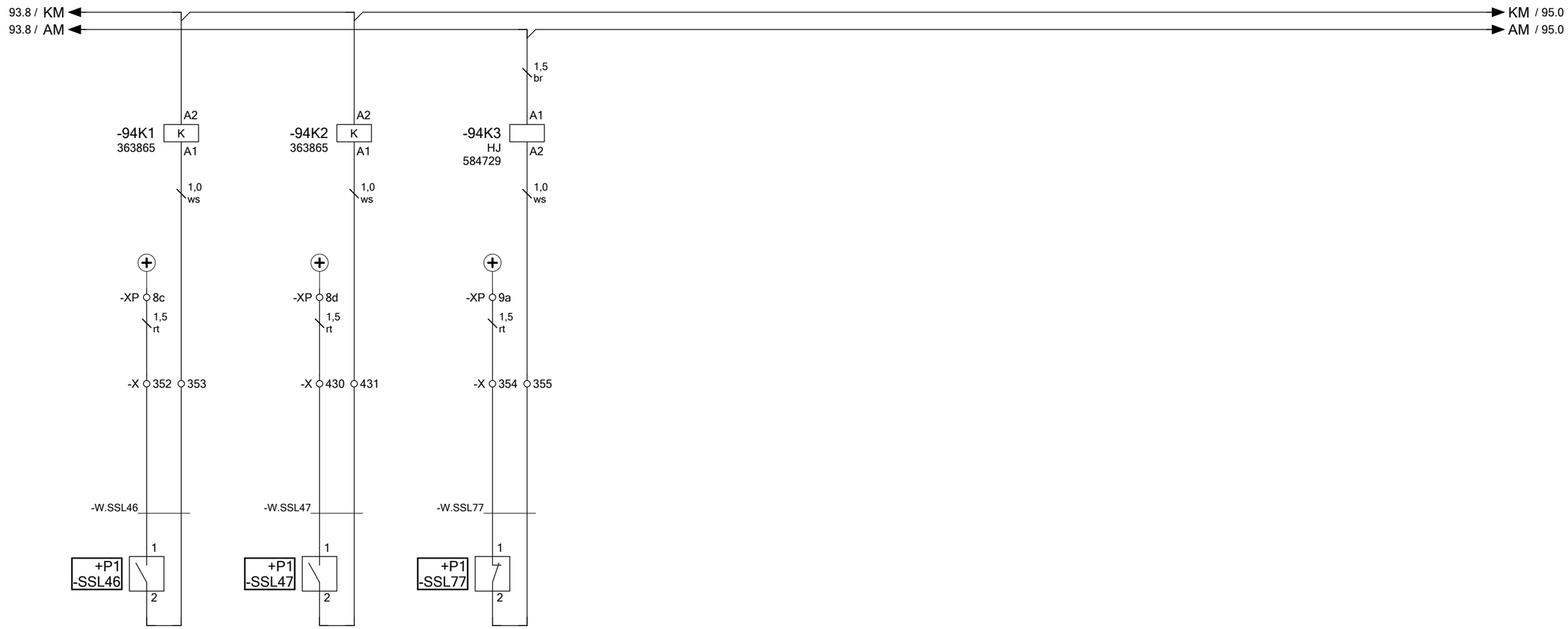
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 93
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_1611.emp			



/54.4 14 – 11
12

/52.2 14 – 11
12

/81.6 14 – 11
12
/52.0 24 – 21
22
34 – 31
32
44 – 41
42

Disturbo Trasformatore --> Allarma
Failure Transformer --> Warning

Disturbo Trasformatore --> fermo
Failure Transformer --> Shut down

Sezionatore di messa a terra Alternatore
aperto
Earthing isolator Generator open

93

95

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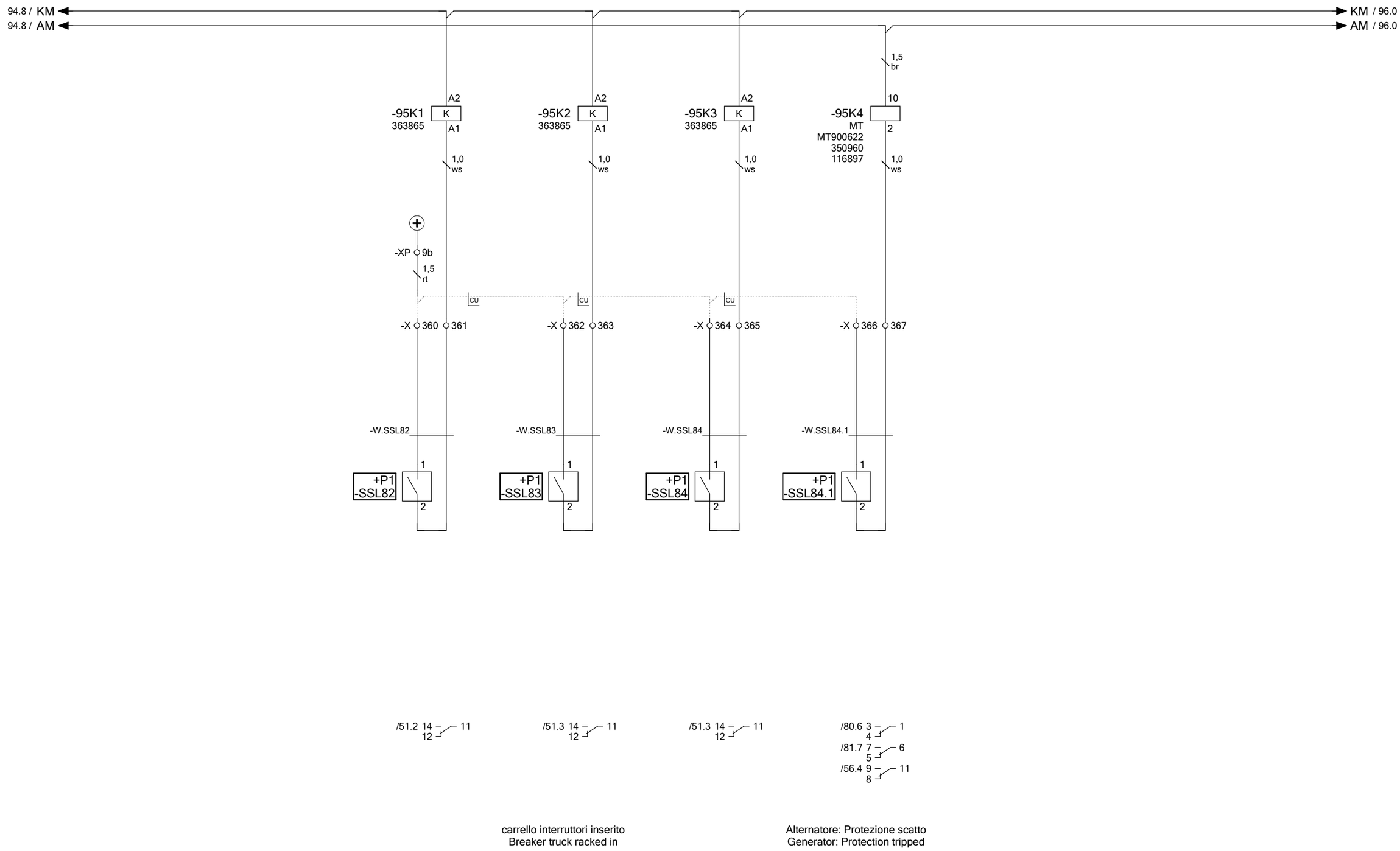
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 94
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_1650.emp			



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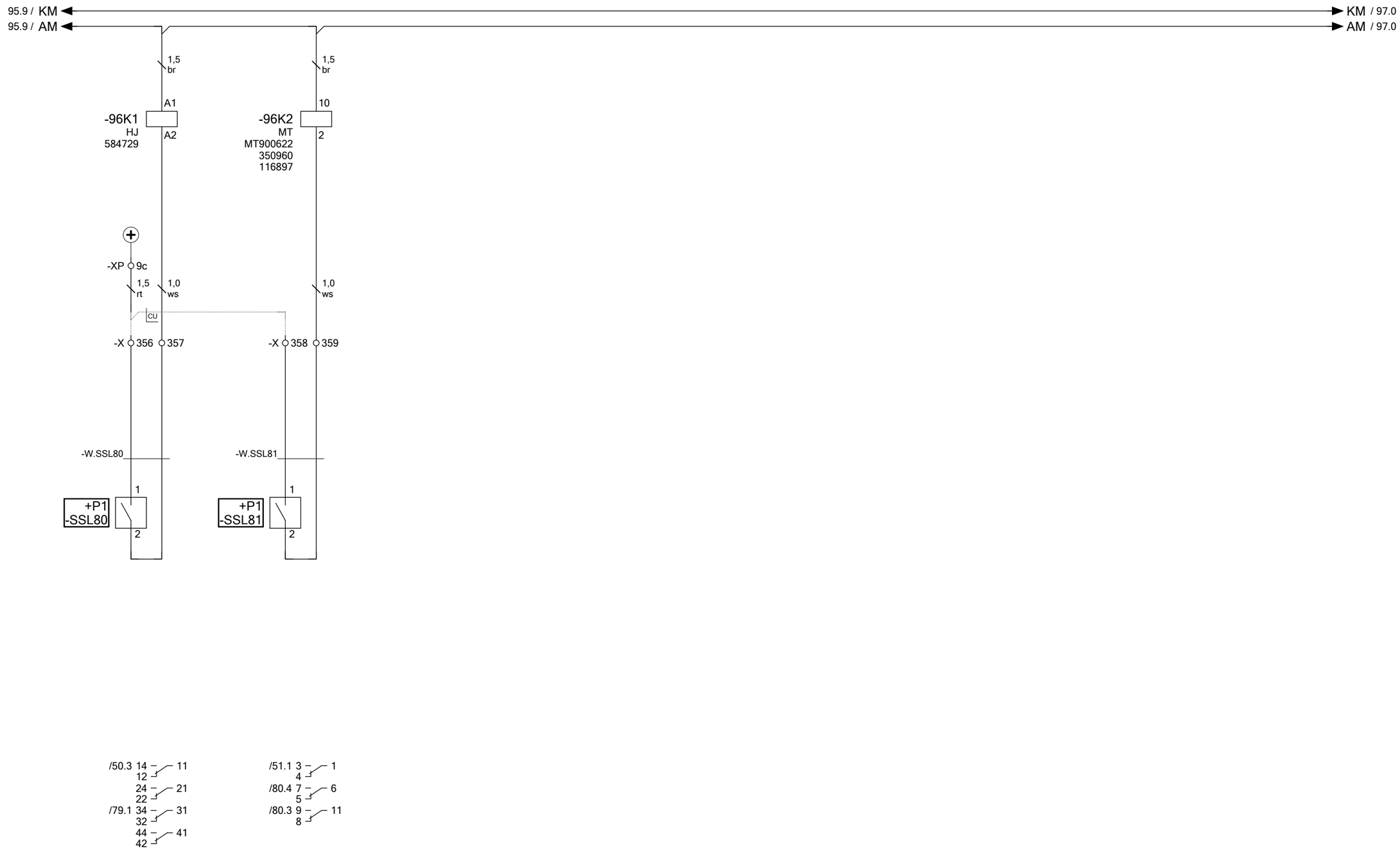
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Interfaccie Interruttore alternatore Interfaces Generator circuit breaker	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 95
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_1660.emp			



Interruttore alternatore aperto
Generator circuit breaker open

Interruttore alternatore chiuso
Generator circuit breaker closed

95

97

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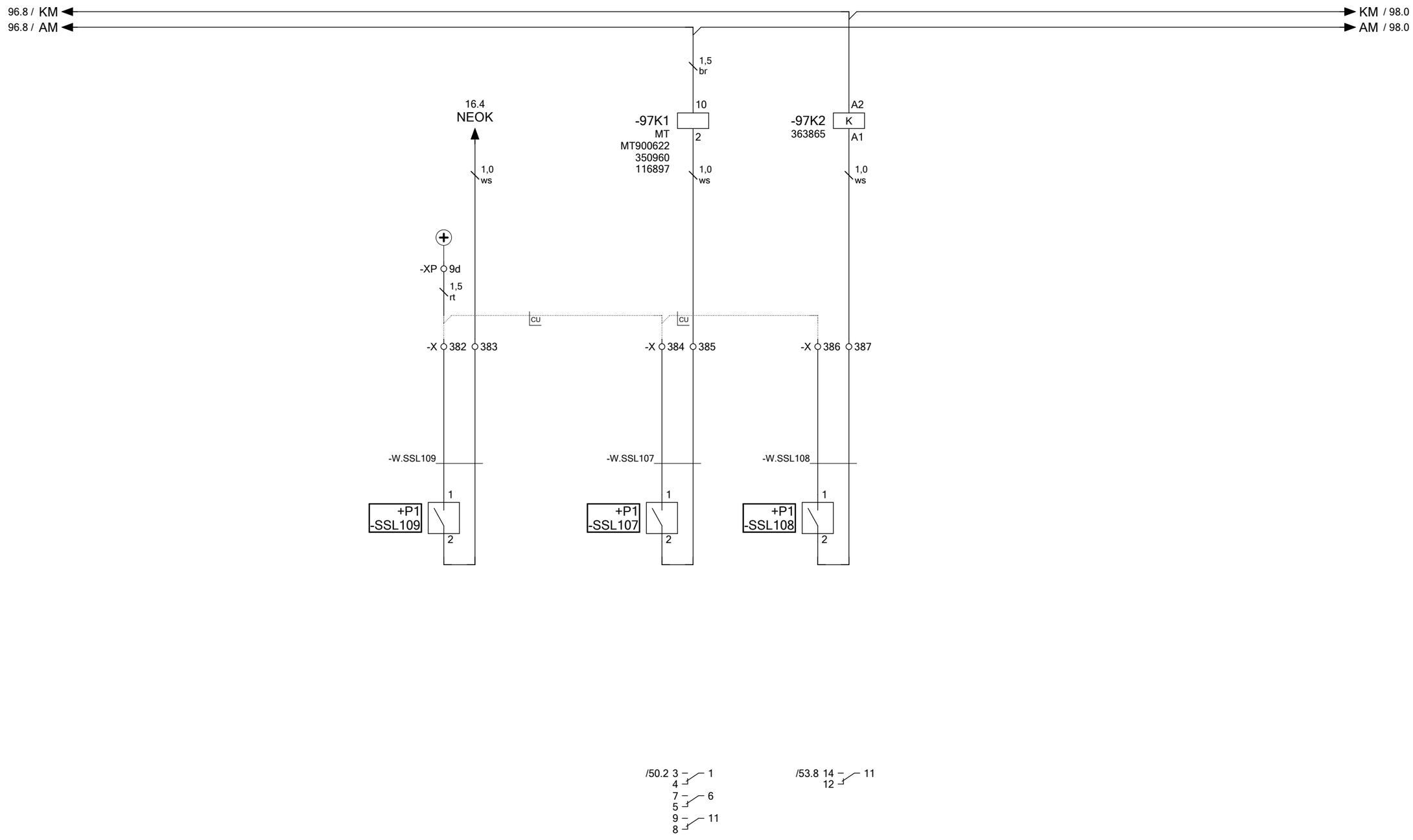
			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Interfaccie Interruttore alternatore Interfaces Generator circuit breaker	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 96
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_1660_1.emp			



Interruttore rete chiuso
Mains circuit breaker closed

Rete OK
Mains OK

Trasformatore Interruttore chiuso
Transformer Switch closed

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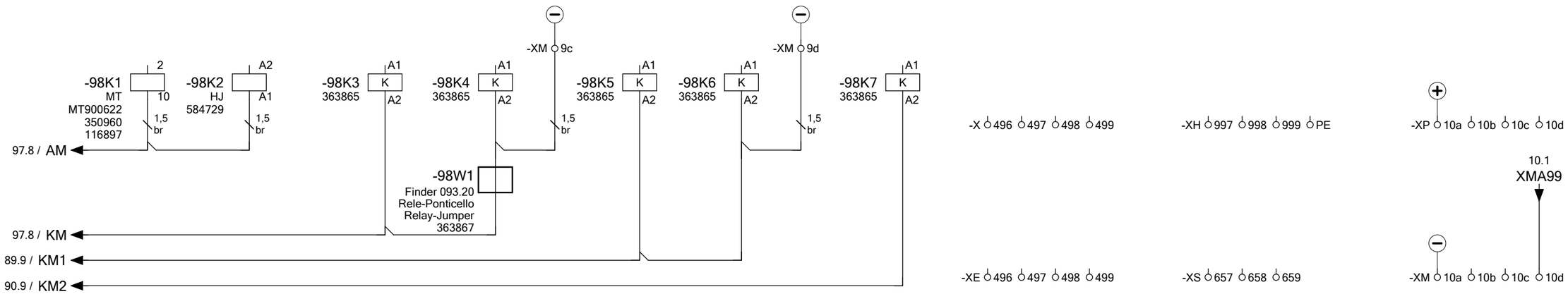
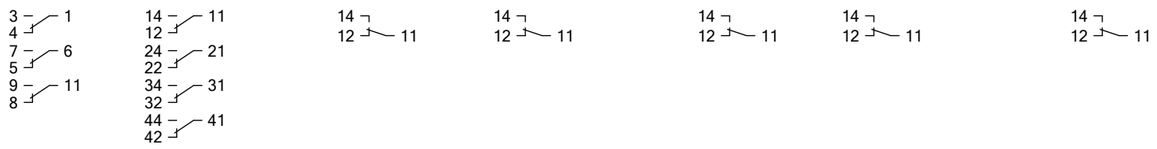
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 97
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric P8 SGMACRO\A1_1670_3.emp			





Riserva
Spare

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 98
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk 2014KW39	ePLAN electric8 SGMACRO\A1_2000.emp			

Schema dei collegamenti
Terminal connection diagram

+A1-X

Foglio Page	/81.1	/81.2	/81.3	/81.8	/10.0	/10.1	/10.1	/10.0	/10.1	/10.5	/10.5	/81.4	/81.4		/29.5	/29.6	/29.6	/29.7	/29.7		/30.5	/30.6	/30.6	/30.7	/30.7		/31.1	/31.1	/31.1		/31.2	/31.2		/31.3
Ponti Jumpers	-	-	-	-	●	●	●	●	●	-	-	-	-		-	-	-	-	-		-	-	-	-	-		●	●	●		●	●		●
Collegamento Connection	20	21	22	23	31	31	E	33	33	101	102	152	153		160	161	162	163	164		165	166	167	168	169		190	191	192		196	197		198

Cavi Cable

-W.E81.A YSLY-JZ 5x2,5 mm²

+M1-W.E1.A YSLY-JZ 5x10 mm²

-W.SSL39 | -W.SSL51.4 | -W.SSL51.2 | -W.SSL57.6 | -W.SSL57.5 | -W.SSL57.3

Indi cazione Target	+M1 -X	+P1 -SSL39	+P1 -SSL51.4	+P1 -SSL51.2	+P1 -SSL57.6	+P1 -SSL57.5	+P1 -SSL57.3
P&ID-TAG			P.02-YCS-002	P.02-YCS-003	P.03-S-004	P.03-LS-003	P.03-LS-013
Foglio Page	+M1/4.3	/81.4	/29.5	/30.5	/31.1	/31.2	/31.3

Test funzionamento Function text

/81.1	Arresto di emergenza / Emergency stop
/81.2	Arresto di emergenza Tasto / Emergency stop Push button
/81.3	Consenso: Sincronizzazione / Carica / Release: Synchronisation / Load
/81.8	Interfaccia modulo: Alimentazione / Module interface: Supply
/10.0	=
/10.1	=
/10.1	=
/10.0	=
/10.1	=
/10.5	Riserva / Spare
/10.5	=
/81.4	Arresto di emergenza / Emergency stop
/81.4	=
/29.5	Segnali Valvola bypass / Signals Bypass flap
/29.6	=
/29.6	=
/29.7	=
/29.7	=
/30.5	Segnali Valvola caldaia / Signals Boiler flap
/30.6	=
/30.6	=
/30.7	=
/30.7	=
/31.1	Interruttore Pompa olio fresco / Switch Freshoil pump
/31.1	=
/31.1	=
/31.2	Olio fresco massima / Freshoil max
/31.2	=
/31.3	Olio fresco min / Freshoil min

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +A1-X Terminal connection diagram +A1-X
			Desig.	Streiter Daniela			
			Print	11.03.2015	CPL JMS 612 F02 Politecnico		
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8	

SO-Nr. Project:	22553	=
Suffix		+ A1
Wiring Diagram	J T132	Page 99

Schema dei collegamenti
Terminal connection diagram

+A1-X

Foglio Page	/31.3	/31.5	/31.6	/31.6	/31.7	/31.7	/91.1	/91.1	/91.2	/91.2	/82.1	/82.1	/82.2	/82.2	/82.2	/82.3	/82.3	/82.3	/82.4	/82.4	/82.4	/82.4	/82.5	/82.5
Ponti Jumpers		●			●		●		●	-	-	-	-	●		●	●		●	●		●	-	-
Collegamento Connection	199	202	203	204	205	206	300	301	304	305	306	307	309	310	311	312	313	314	315	316	317	318	319	320
Cavi Cable	-W.SSL57.3	-W.SSL57.7			-W.SSL57.4		-W.SSL15		-W.SSL19		-W.SSL50.1		-W.SSL50.2			-W.SSL50.3			-W.SSL50.4			-W.SSL50.5		
Indi cazione Target	2	2 1 3			1 2		1 2		1 2		2 1		1 2 4			1 2 4			1 2 4			1 2 4		
	+P1 -SSL57.3	+P1 -SSL57.7			+P1 -SSL57.4		+P1 -SSL15		+P1 -SSL19		+P1 -SSL50.1		+P1 -SSL50.2			+P1 -SSL50.3			+P1 -SSL50.4			+P1 -SSL50.5		
P&ID-TAG	P.03-LS-013	P.03-S-005			P.03-LS-002						P.06-FS-001		P.06-PS-001			P.06-TS-001			P.06-TS-023 [01]			P.06-PS-033		
Foglio Page	/31.3	/31.5			/31.7		/91.1		/91.2		/82.1		/82.2			/82.3			/82.4			/82.4		
Test funzionamento Function text	Olio fresco min Freshoil min	Interruttore Olio usato Switch Waste oil	"	"	Serbatoio olio usato massima Waste oil tank max	"	Richiesta Demand	"	Consenso Ausiliari Release Auxiliaries	"	Portata acqua calda esiste Hot water flow existing	"	Press. acqua calda massima Hot water pressure max	"	"	Temp. acqua calda massima Hot water temperature max	"	"	Temp. acqua calda massima 2 Hot water temperature max 2	"	"	Press. acqua calda massima 2 Hot water pressure max 2	"	"

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Schema dei collegamenti
Terminal connection diagram

+A1-X

Foglio Page	Ponti Jumpers	Collegamento Connection	Cavi Cable	Indi cazione Target	P&ID-TAG	Foglio Page	Test funzionamento Function text
/92.2		330					Bypass gas di scarico attivare Exhaust gas bypass activate
/92.2		331	-W.SSL51.1	1 2 +P1 -SSL51.1		/92.2	=
/92.3		332					Messaggio di servizio Pompa acqua raffreddamento carica Operating notification Charge cooling water pump
/92.3		333	-W.SSL54.3	1 2 +P1 -SSL54.3		/92.3	=
/92.4		334					pompa dell'acqua di raffreddamento Servizio emergency cooling water pump Operation
/92.4		335	-W.SSL55.5	1 2 +P1 -SSL55.5		/92.4	=
/92.4		336					=
/92.5		337					Riserva Spare
/92.5		338	-W.SSL55.18	1 2 +P1 -SSL55.18		/92.5	Disturbo Radiatore di emergenza Failure Dump radiator
/92.6		339					=
/92.6		340					Riserva Spare
/92.7		341					=
/92.7		342	-W.SSL54.14	1 2 +P1 -SSL54.14		/92.7	=
/92.8		343					Disturbo Ventilatore raffreddamento carica Failure Charge cooling fan
/92.8		344					=
/92.8		345					Riserva Spare
/94.1		352	-W.SSL46	1 2 +P1 -SSL46		/94.1	Disturbo Trasformatore --> fermo Failure Transformer --> Shut down
/94.1		353					=
/94.3		354					Sezionatore di messa a terra Alternatore aperto Earthing isolator Generator open
/94.3		355	-W.SSL77	1 2 +P1 -SSL77		/94.3	=
/96.1		356					Interruttore alternatore chiuso Generator circuit breaker closed
/96.1		357	-W.SSL80	1 2 +P1 -SSL80		/96.1	=
/96.2		358					Interruttore alternatore aperto Generator circuit breaker open
/96.2		359	-W.SSL81	1 2 +P1 -SSL81		/96.2	=
/95.3		360					Interruttore alternatore pronto Generator circuit breaker ready
/95.3		361	-W.SSL82	1 2 +P1 -SSL82		/95.3	=
/95.4		362	-W.SSL83	1 +P1 -SSL83		/95.4	carrello interruttori inserito Breaker truck racked in

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Schema dei collegamenti
Terminal connection diagram

+A1-X

Foglio Page	Ponti Jumpers	Collegamento Connection	Cavi Cable	Indi cazione Target	P&ID-TAG	Foglio Page	Test funzionamento Function text
/95.4		363	-W.SSL83	2 +P1 -SSL83		/95.4	carrello interruttori inserito Breaker truck racked in
/95.4	•	364	-W.SSL84	1 2 +P1 -SSL84		/95.4	Interruttore alternatore Sovracarico / Corto circuito Generator circuit breaker Overload / Short circuit
/95.5		365					
/95.5	•	366	-W.SSL84.1	1 2 +P1 -SSL84.1		/95.5	Alternatore: Protezione scatto Generator: Protection tripped
/95.6	-	367					
/93.1	•	372	-W.SSL58.1	1 2 +P1 -SSL58.1		/93.1	Richiesta Compressore gas --> Torcia Demand Gas compressor --> Flare
/93.1		373					
/93.2	•	374	-W.SSL58.2	1 2 +P1 -SSL58.2		/93.2	Disturbo: Compressore gas Failure: Gas compressor
/93.2		375					
/93.3	•	376					
/93.3		377					Riserva Spare
/93.4	•	378					
/93.4		379					
/93.4	•	380					
/93.5	-	381					
/97.3	•	382	-W.SSL109	1 2 +P1 -SSL109		/97.3	Rete OK Mains OK
/97.3		383					
/97.4	•	384	-W.SSL107	1 2 +P1 -SSL107		/97.4	Interruttore rete chiuso Mains circuit breaker closed
/97.4		385					
/97.5	•	386	-W.SSL108	1 2 +P1 -SSL108		/97.5	Trasformatore Interruttore chiuso Transformer Switch closed
/97.5	-	387					
/78.1	-	418	-W.SSL54.1	4 1 +P1 -SSL54.1	P.07-PS-001	/78.1	Pressione acqua raffreddamento carica min Charge cooling water pressure min
/78.1	-	419					
/78.3	-	420	-W.SSL55.1	4 1 +P1 -SSL55.1	P.09-PS-001	/78.3	Pressione min: Circuito di raffreddamento Pressure min: Cooling circuit
/78.3	-	421					

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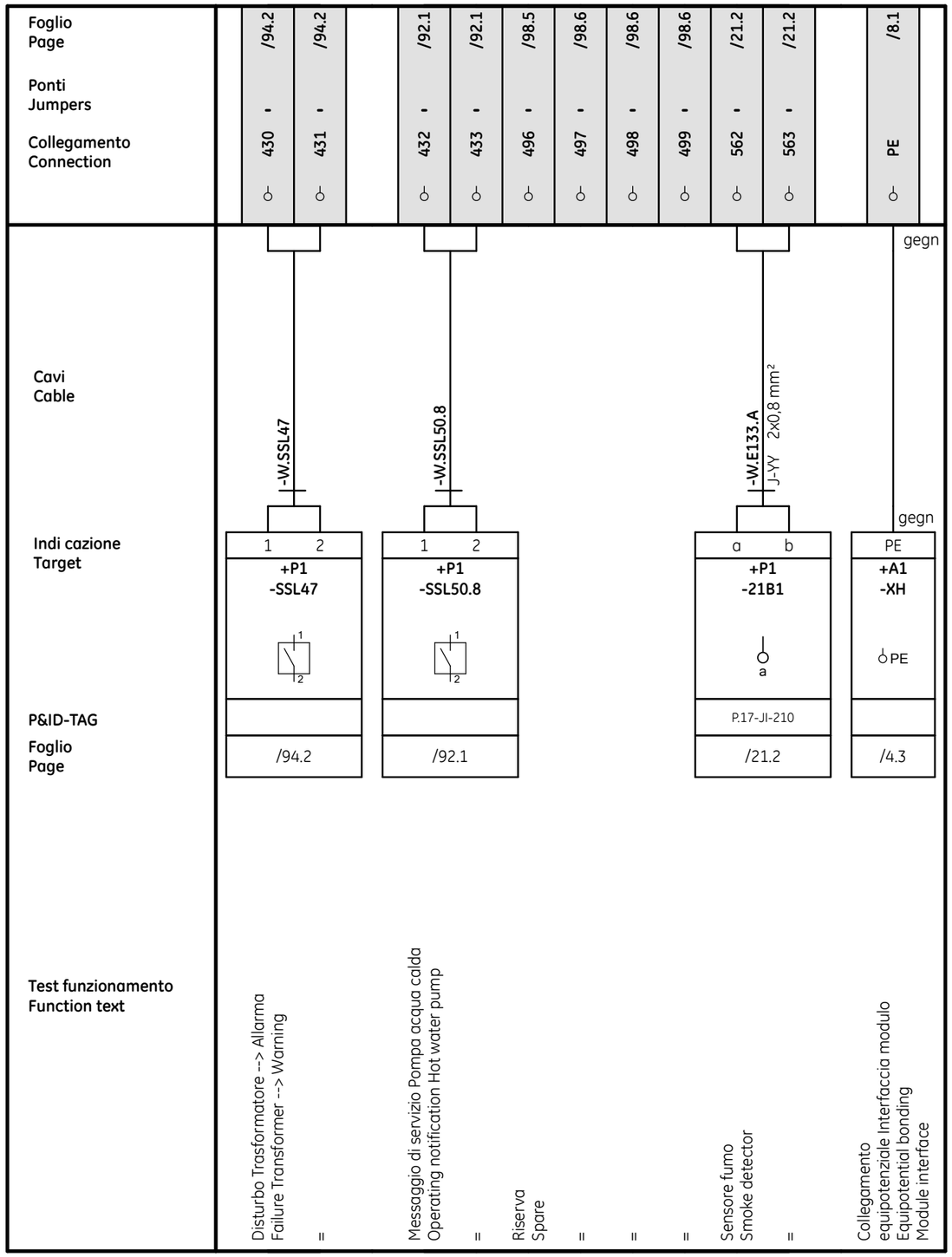
Schema dei collegamenti
Terminal connection diagram

+A1-X



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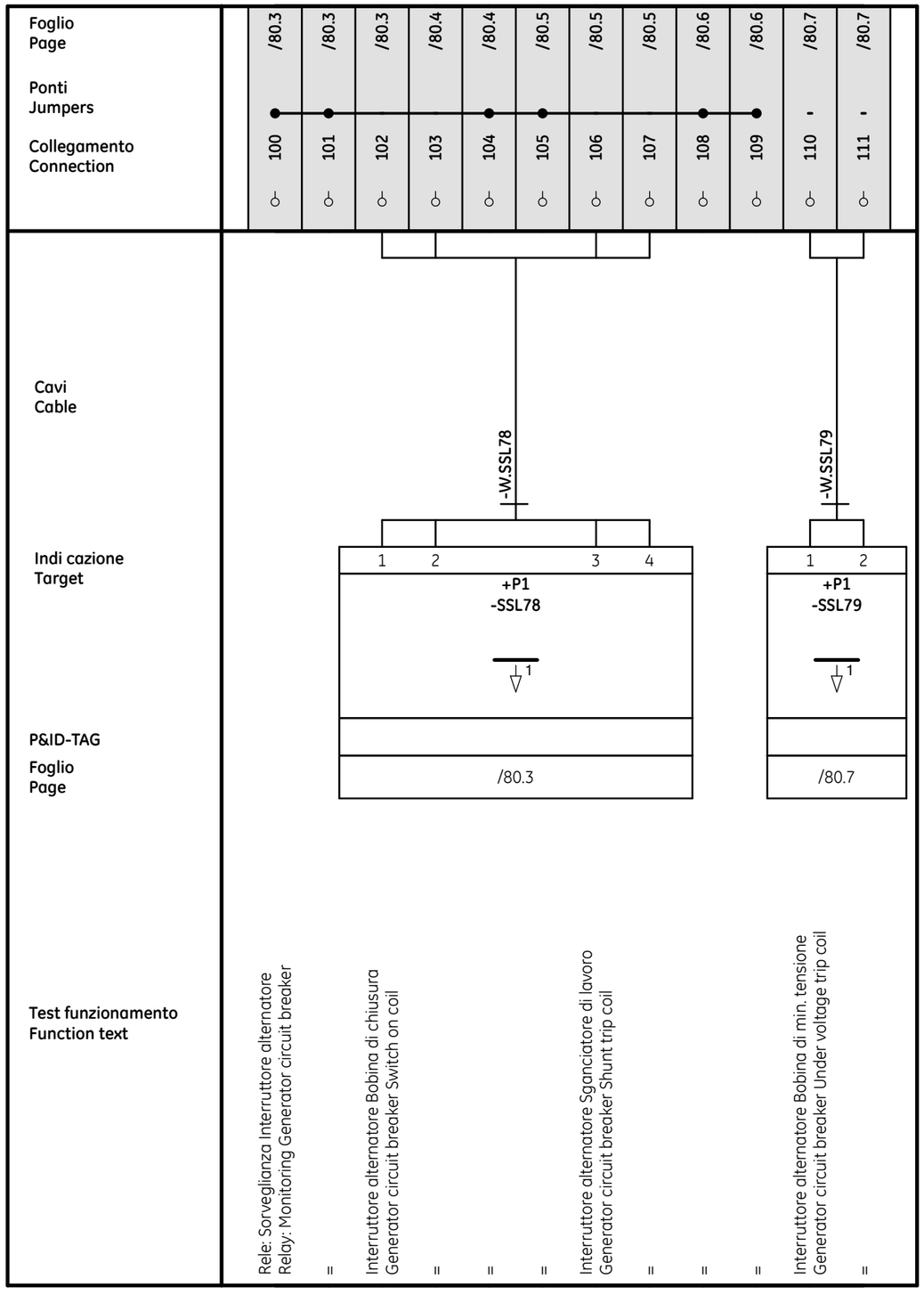
Schema dei collegamenti
Terminal connection diagram

+A1-XCB



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Schema dei collegamenti
Terminal connection diagram

+A1-XE

Foglio Page	/31.4	/31.4	/31.8	/31.8	/84.1	/84.1	/84.2	/84.2	/84.3	/84.3	/84.4	/84.4	/84.5	/84.5	/84.6	/84.7	/84.7	/84.8	/83.3	/83.3	/83.5	/83.5	/98.5	/98.6	/98.6	/98.6
Ponti Jumpers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collegamento Connection	200	201	207	208	406	407	408	409	410	411	412	413	414	415	416	417	418	419	436	437	438	439	496	497	498	499
Cavi Cable	-W.SSL57.1		-W.SSL57.2		-W.SSL24		-W.SSL25		-W.SSL26		-W.SSL51.3				-W.SSL51.5				-W.SSL23		-W.SSL76					
Indi cazione Target	NO1 NO2 +P1 -SSL57.1 NO1		NO1 NO2 +P1 -SSL57.2 NO1		NO1 NO2 +P1 -SSL24 NO1		NO1 NO2 +P1 -SSL25 NO1		NO1 NO2 +P1 -SSL26 NO1		NO1 NO2 NO3 NO4 +P1 -SSL51.3 NO1				NO1 NO2 NO3 NO4 +P1 -SSL51.5 NO1				NO1 NO2 +P1 -SSL23 NO1		NO1 NO2 +P1 -SSL76 NO1					
P&ID-TAG																										
Foglio Page	/31.4		/31.8		/84.1		/84.2		/84.3		/84.4				/84.6				/83.3		/83.5					
Test funzionamento Function text	Richiesta Pompa olio fresco Demand Freshoil pump	=	Richiesta Pompa olio usato Demand Waste oil pump	=	Preallarme gas Gas prealarm	=	Allarme di gas Gas alarm	=	Allarme di incendio Fire alarm	=	Richiesta Valvola caldaia aperto Demand Boiler flap open	=	Richiesta Valvola caldaia chiuso Demand Boiler flap closed	=	Richiesta Valvola bypass aperto Demand Bypass flap open	=	Richiesta Valvola bypass chiuso Demand Bypass flap closed	=	Arresto di emergenza Emergency stop	=	Disturbo disinserzione Interruttore alternatore opening failure Generator circuit breaker	=	Riserva Spare	=	=	=

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Schema dei collegamenti
Terminal connection diagram

+A1-XE

Foglio / Page	/14.1	/14.1	/14.1	/14.1	/14.1	/14.2	/14.2	/15.1	/15.1	/15.1	/15.1	/15.1	/15.2	/15.2	/15.4	/15.5	/15.5	/15.5	/15.5	/15.5	/15.6	/14.6	/14.6	/14.6	/14.7	/14.7	/12.1	/12.1	/12.1	/12.1	/12.1
Ponti / Jumpers																															
Collegamento / Connection	701	702	703	704	705	706	PE	711	712	713	714	715	716	PE	727	728	729	730	731	732	PE	741	742	743	744	PE	751	752	753	754	PE
Cavi / Cable				-W.M4.A YSLY-JZ 7x2,5 mm²							-W.M7.C YSLY-JZ 7x2,5 mm²							-W.SSL10						-W.SSL13						-W.SSL75	
Indi cazione / Target	62	64	66	61	63	65	PE	68	70	72	67	69	71	PE	1S2	2S2	3S2	1S1	2S1	3S1	PE	L1	L2	L3	N	PE	L1	L2	L3	N	PE
	+G1 -X3														+P1 -SSL10							+P1 -SSL13					+P1 -SSL75				
	62														1S2 2S2 3S2 1S1 2S1 3S1 PE							L1 L2 L3 N PE					L1 L2 L3 N PE				
P&ID-TAG																															
Foglio / Page	+G1/3.4														/15.4							/14.6					/12.1				
Test funzionamento / Function text	Corrente alternatore Trasformatore di misura Generator current Measuring C.T.S.	"	"	"	"	"	"	Corrente alternatore Trasformatore di protezione Generator current Protection C.T.S.	"	"	"	"	"	"	Corrente del trafo Transformer current	"	"	"	"	"	"	Tensione alternatore Generator voltage	"	"	"	"	Tensione de la sbarra Busbar voltage	"	"	"	"

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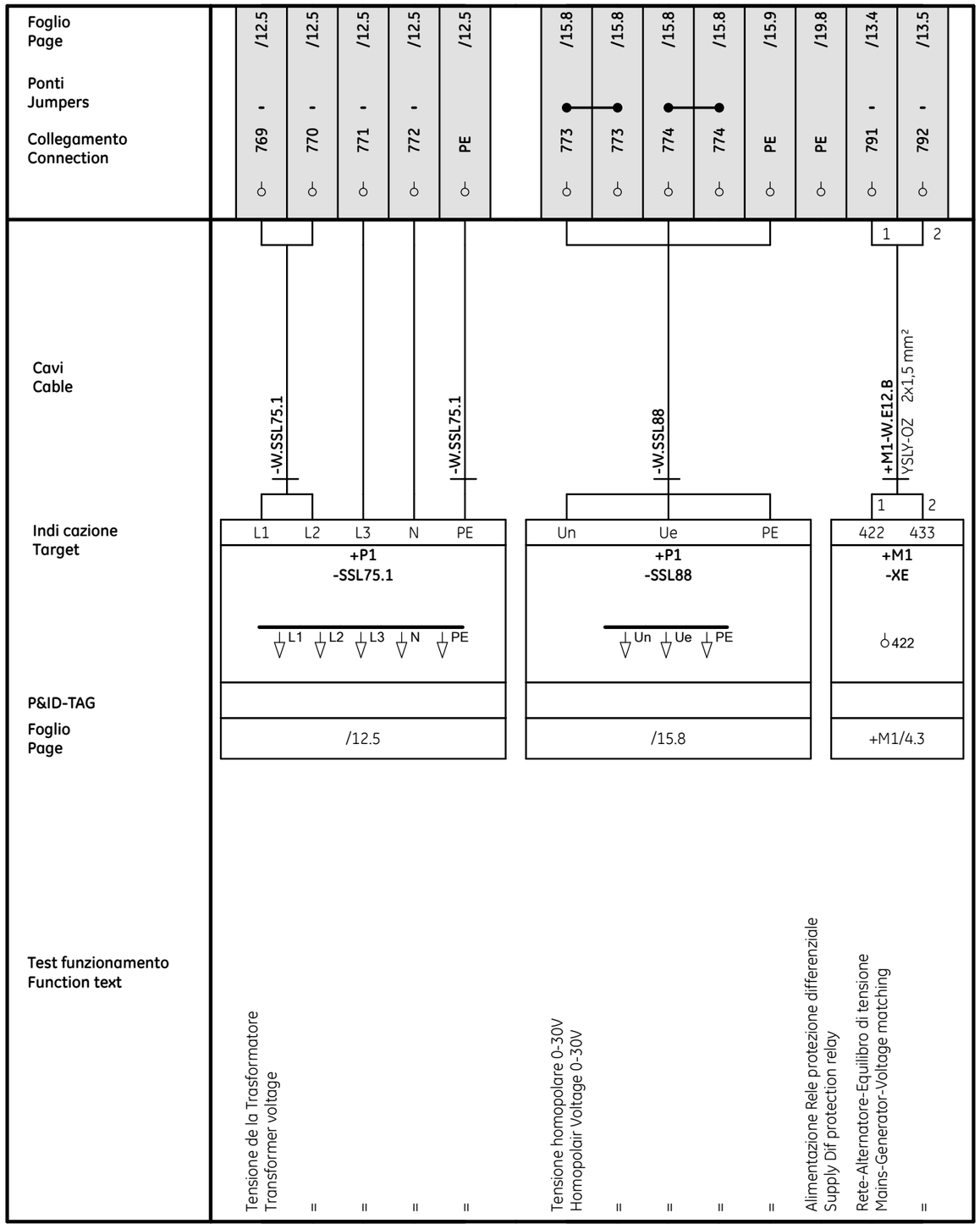
Schema dei collegamenti
Terminal connection diagram

+A1-XE



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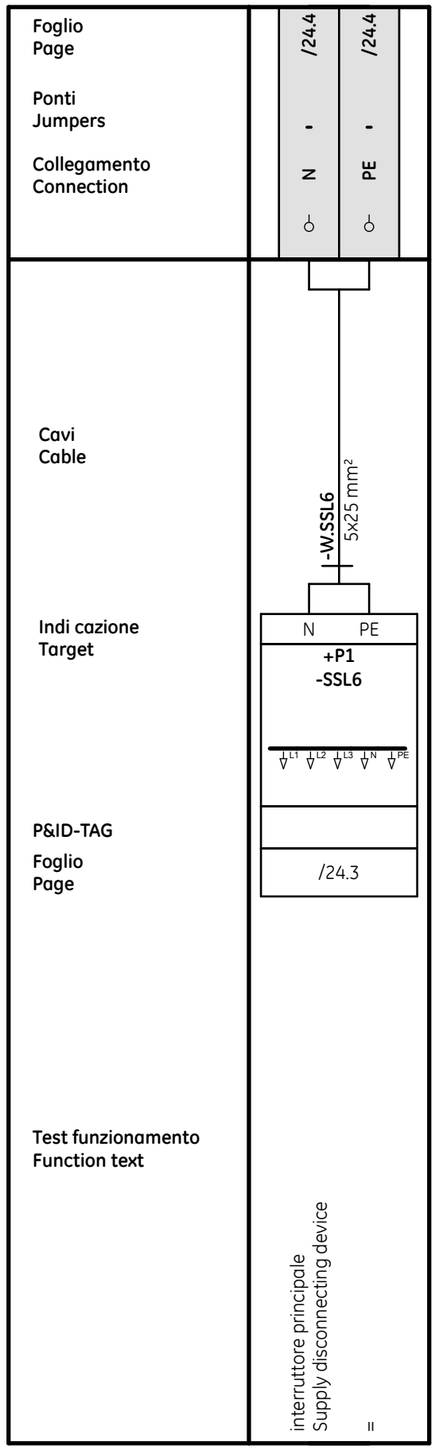
Schema dei collegamenti
Terminal connection diagram

+A1-XE1



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Schema dei collegamenti
Terminal connection diagram

+A1-XH

Foglio Page	/22.3	/22.3	/22.4	/22.1	/22.1	/22.1	/25.1	/25.1	/25.2	/25.2	/25.2	/98.7	/98.7	/98.7	/98.7	/34.7		/28.1		/8.4		/8.1		/8.1
Ponti Jumpers	-	-		-	-		-	-	-	-		-	-	-								-		
Collegamento Connection	520	521	PE	528	529	PE	801	802	803	804	PE	997	998	999	PE	PE		PE		PE		PE		PE
Cavi Cable	-W.SSL52			-W.SSL55.3			-W.E12.C YSLY-JZ 5x10 mm²									-W.SSL56.36		gegn / gegn		-W.SSL3		gegn / gegn		+M1-W.E13.C H07V-K 1x16 mm² gegn / gegn
Indi cazione Target	G G0 +P1 -SSL52 G			G G0 +P1 -SSL55.3 G			U1 V1 W1 N PE +M1 -XH U1									PE +P1 -SSL56.36 PE		PE +A1 -28M1		PE +P1 -SSL3 PE		PE +A1 -XE1 PE		PE +M1 -XH PE
P&ID-TAG	P.06-YTC-001			P.06-YTC-002																				
Foglio Page	/22.3			/22.1			+M1/4.3									/34.7		/28.1		/8.4		/4.3		+M1/4.3
Test funzionamento Function text	Valvola di ritorno Water return valve	"	"	Valvola di regolazione Circuito di raffreddamento Regulator valve Cooling circuit	"	"	Alimentazione Interfaccia modulo Supply Module interface	"	"	"	"	Riserva Spare	"	"	"	Collegamento equipotenziale Equipotential bonding		Ventilatore del quadro Panel fan		Collegamento equipotenziale Equipotential bonding		Collegamento a terra Grounding		Collegamento equipotenziale Interfaccia modulo Equipotential bonding Module interface

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Schema dei collegamenti
Terminal connection diagram

+A1-XH1

Foglio Page	/27.2
Ponti Jumpers	
Collegamento Connection	PE
Cavi Cable	gegn gegn
Indi cazione Target	PE +A1 -27X1 L PE N
P&ID-TAG	
Foglio Page	/27.1
Test funzionamento Function text	
	Presa Socket

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +A1-XH1 Terminal connection diagram +A1-XH1	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 110
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8			

Schema dei collegamenti
Terminal connection diagram

+A1-XS

Foglio Page	Ponti Jumpers	Collegamento Connection
/22.4	-	522
/22.4	●	523
/22.4	●	E
/22.5	-	524
/22.6	●	525
/22.6	●	PE
/22.6	-	526
/22.6	●	527
/22.6	●	E
/22.2	-	530
/22.2	●	531
/22.2	●	E
/20.1	-	550
/20.2	-	551
/20.2	-	552
/20.8	-	553
/20.8	-	554
/20.8	-	555
/32.2	-	566
/32.2	-	567
/32.2	-	568
/32.3	-	569
/32.3	-	570
/32.3	-	571
/32.4	●	572
/33.4	●	572
/34.4	●	572

Cavi Cable

Cavi	Indi cazione Target	P&ID-TAG	Foglio Page	Test funzionamento Function text
-W.SSL52	Y / +P1 -SSL52 / Y	P.06-YTC-001	/22.3	Valvola di ritorno Water return valve
				"
				"
-W.SSL55.3	Y / +P1 -SSL55.3 / Y	P.06-YTC-002	/22.1	Riserva Charge circuit valve
				"
				"
				"
				"
				"
-W.E14.A YSLCY-OZ 3x1,5 mm²	S 01 NS / +P1 -20B1 / S	P.17-JI-100 [01]	/20.1	Valvola di regolazione Circuito di raffreddamento Regulator valve Cooling circuit
				"
				"
				Sensore di gas 1 Gas sensor 1
				"
				"
-W.E15.A YSLCY-OZ 3x1,5 mm²	S 01 NS / +P1 -20B2 / S	P.17-JI-100 [02]	/20.8	Sensore di gas 2 Gas sensor 2
				"
				"
-W.SSL56.4	14 12 / +P1 -SSL56.4 / 14 12 SH		/32.2	Richiesta Giri massima Demand Speed max
				"
-W.SSL56.3	FRG +24V / +P1 -SSL56.3 / FRG +24V SH		/32.2	Consenso Convertitore frequenza Release Frequency converter
				"
-W.SSL56.5	RD1 RD2 / +P1 -SSL56.5 / RD1 RD2 SH		/32.3	Ventilazione sala macchina disturbo Engine room ventilation failure
				"
-W.SSL56.2	SP1 / +P1 -SSL56.2 / SP1 SP2 SH		/32.4	Valore nominale Convertitore frequenza Set point Frequency converter
-W.SSL56.22	SP1 / +P1 -SSL56.22 / SP1 SP2 SH		/33.4	"
-W.SSL56.42	SP1 / +P1 -SSL56.42 / SP1 SP2 SH		/34.4	"

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +A1-XS Terminal connection diagram +A1-XS	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
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Schema dei collegamenti
Terminal connection diagram

+A1-XS

Foglio Page	/32.4	/33.4	/34.4	/33.2	/33.2	/33.3	/33.3	/33.3	/33.4	/62.4	/62.4	/34.2	/34.2	/34.3	/34.3	/34.3	/34.4	/65.1	/65.1	/62.0	/62.0	/62.6	/62.6
Ponti Jumpers	573	573	573	574	575	576	577	578	579	584	585	586	587	588	589	590	591	600	601	602	603	608	609
Collegamento Connection																							
Cavi Cable	-W.SSL56.2	-W.SSL56.22	-W.SSL56.42	-W.SSL56.31		-W.SSL56.23		-W.SSL56.25				-W.SSL56.41		-W.SSL56.43		-W.SSL56.45		-W.SSL29		-W.SSL28		-W.SSL31.1	
Indi cazione Target	SP2	SP2	SP2	14 12		FRG +24V		RD1 RD2				14 12		FRG +24V		RD1 RD2		+ -		+ -		+ -	
	+P1 -SSL56.2	+P1 -SSL56.22	+P1 -SSL56.42	+P1 -SSL56.31		+P1 -SSL56.23		+P1 -SSL56.25				+P1 -SSL56.41		+P1 -SSL56.43		+P1 -SSL56.45		+P1 -SSL29		+P1 -SSL28		+P1 -SSL31.1	
P&ID-TAG																							
Foglio Page	/32.4	/33.4	/34.4	/33.2		/33.3		/33.3				/34.2		/34.3		/34.3		/65.1		/62.0		/62.6	
Test funzionamento Function text	Valore nominale Convertitore frequenza Set point Frequency converter	=	=	Richiesta Giri massima Demand Speed max	=	Consenso Convertitore frequenza Release Frequency converter	=	Ventilazione sala macchina disturbo Engine room ventilation failure	=	Riserva Spare	=	Richiesta Giri massima Demand Speed max	=	Consenso Convertitore frequenza Release Frequency converter	=	Ventilazione sala macchina disturbo Engine room ventilation failure	=	Potenza attiva del alternatore Generator active power	=	Valore nominale de la potenza Esterno Set point power External	=	Valore nominale: Cosφ Set point: Cosφ	=

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +A1-XS Terminal connection diagram +A1-XS	SO-Nr. Project: 22553	=
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Schema dei collegamenti
Terminal connection diagram

+A1-XS

Foglio Page	/76.1	/76.1	/76.2	/76.3	/76.3	/76.4	/76.5	/76.5	/76.5	/76.7	/76.7	/76.7	/77.5	/77.5	/77.5	/77.7	/77.7	/77.7	/98.7	/98.7	/98.7	/32.5	/32.5	/33.5	/33.5	/34.5	/34.5	/70.3
Ponti Jumpers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Collegamento Connection	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	657	658	659	700	701	702	703	704	705	750

Cavi
Cable

-W.SSL53 | -W.SSL55.2 | -W.SSL50.6 | -W.SSL56.1 | -W.SSL54.12 | -W.SSL51.6 | -W.SSL56.32 | -W.SSL400 MODBUS

Indi cazione
Target

	+P1 -SSL53	+P1 -SSL55.2	+P1 -SSL50.6	+P1 -SSL56.1	+P1 -SSL54.12	+P1 -SSL51.6	+P1 -SSL56.32	+P1 -SSL400
P&ID-TAG	P.06-TI-012	P.06-TI-015	P.06-TI-014	P.17-TI-010		P.04-TI-0xx		
Foglio Page	/76.1	/76.3	/76.5	/76.7	/77.5	/77.7	/32.5	/70.3

Test funzionamento
Function text

Temperature di ritorno Heating water return temperature	
Temperatura ritorno a valle di refrigeratore Return temperature after cooler	
Temperatura mandata supply temperature	
Temperatura de la sala Room temperature	
Acqua raffreddamento carica Temperatura Charge cooling water Temperature	
Temperature di ritorno Uscita Heating water return temperature Output	
Riserva Spare	
Servizio: Ventilazione sala macchina Operation: Engine room ventilation	
MODBUS-RTU Interfaccia MODBUS-RTU Interface	

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +A1-XS Terminal connection diagram +A1-XS	SO-Nr. Project: 22553	=
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Schema dei collegamenti
Terminal connection diagram

+A1-XS

Foglio Page	/70.3	/70.3
Ponti Jumpers	-	-
Collegamento Connection	751	E
Cavi Cable	-W.SSL400 MODBUS	
Indi cazione Target	B S +P1 -SSL400 B	
P&ID-TAG		
Foglio Page	/70.3	
Test funzionamento Function text	MODBUS-RTU Interfaccia MODBUS-RTU Interface	

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema dei collegamenti +A1-XS Terminal connection diagram +A1-XS	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
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Schema allacciamento apparecchiature
Device connection diagram

+A1-10F2
117785 D01 gG 6A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	1	-XP:1a	4,0 mm²	rt
	2	-10F1:1	4,0 mm²	rt

+A1-10F6
117785 D01 gG 6A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	1	-X:101	1,5 mm²	rt
	2	-10F5:1	1,5 mm²	rt

+A1-80F2
117785 D01 gG 6A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	1	-XCB:101	1,5 mm²	or
	2	-79K1:1	1,5 mm²	or

+A1-80F3
117785 D01 gG 6A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	1	-XCB:109	1,5 mm²	or
	2	-17K1:1	1,5 mm²	or

+A1-26F1
117786 D02 gG 20A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	1	-24Q1:2	16 mm²	or
	2	-27F1:1	4,0 mm²	or

+A1-25F1
117792 D02 gG 35A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	L1_	-L1W1		
	L1	-XH:801	6,0 mm²	sw
	L2_	-L2W1		
	L2	-XH:802	6,0 mm²	sw
	L3_	-L3W1		
	L3	-XH:803	6,0 mm²	sw

+A1-25F2
118598 D02 gG 50A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	L1_	-L1W1		
	L1			
	L2_	-L2W1		
	L2			
	L3_	-L3W1		
	L3			

+A1-25F3
118598 D02 gG 50A 400VAC / 250VDC IEC 60269-3-1

Symbol	Pin	Indi cazione Target		
	L1_	-L1W1		
	L1	-28F1:2	10 mm²	sw
	L2_	-L2W1		
	L2	-28F2:2	10 mm²	sw
	L3_	-L3W1		
	L3	-28F3:2	10 mm²	sw

+A1-11F1
214832 T1,0A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-XP:1c	1,5 mm²	rt
	2	-11B1:1	0,5 mm²	br

+A1-28F4
300288 T0,63A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-28F3:1	1,5 mm²	sw
	2	-XH:528	1,5 mm²	sw

+A1-28F5
300288 T0,63A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-28F4:1		CU
	2	-XH:520	1,5 mm²	sw

+A1-28F6
300288 T0,63A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-28F5:1		CU
	2	-22T1:1	1,5 mm²	sw

+A1-80F1
300288 T0,63A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-XP:7a	1,5 mm²	rt
	2	-81K3:31	1,5 mm²	rt

+A1-10F3
454941 C-6A

Symbol	Pin	Indi cazione Target		
	1	-XCB:100	1,5 mm²	rt
	2	-10F1:2		CU

+A1-10F4
454941 C-6A

Symbol	Pin	Indi cazione Target		
	1	-71A1:+	1,5 mm²	rt
	2	-10F3:2		CU

+A1-10F7
454941 C-6A

Symbol	Pin	Indi cazione Target		
	1	-72K1:+	1,5 mm²	rt
	2	-10F5:2		CU

+A1-28F1
454941 C-6A

Symbol	Pin	Indi cazione Target		
	1	-28B1:5	1,5 mm²	sw
	2	-25F3:L1	10 mm²	sw

+A1-28F3
454941 C-6A

Symbol	Pin	Indi cazione Target		
	1	-28F4:1	1,5 mm²	sw
	2	-25F3:L3	10 mm²	sw

+A1-10F1
454942 C-13A

Symbol	Pin	Indi cazione Target		
	1	-10F2:2	4,0 mm²	rt
	2	-X:33	4,0 mm²	rt

+A1-10F5
454942 C-13A

Symbol	Pin	Indi cazione Target		
	1	-10F6:2	1,5 mm²	rt
	2	-10F4:2		CU

+A1-28F2
454942 C-13A

Symbol	Pin	Indi cazione Target		
	1			
	2	-25F3:L2	10 mm²	sw

+A1-12F1
478341 T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-12X1:3	1,5 mm²	or
	2	-XE:751	1,5 mm²	or

+A1-12F2
478341 T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-12X2:3	1,5 mm²	or
	2	-XE:752	1,5 mm²	or

+A1-12F3
478341 T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-12X3:3	1,5 mm²	or
	2	-XE:753	1,5 mm²	or

+A1-12F4
478341 T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-38K1:X4_1	1,5 mm²	or
	2	-XE:769	1,5 mm²	or

+A1-12F5
478341 T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-38K1:X4_2	1,5 mm²	or
	2	-XE:770	1,5 mm²	or

+A1-14F1
478341 T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-38K1:X3_1	1,5 mm²	or
	2	-XE:741	1,5 mm²	or

+A1-14F2
478341 T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-38K1:X3_2	1,5 mm²	or
	2	-XE:742	1,5 mm²	or

+A1-14F3
478341 T3,15A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-38K1:X3_3	1,5 mm²	or
	2	-XE:743	1,5 mm²	or

+A1-22F1
552289 T2,0A H250V IEC 60127-2

Symbol	Pin	Indi cazione Target		
	1	-22T1:31	1,5 mm²	gr
	2	-XS:524	1,5 mm²	gr

+A1-27F1
624631 B-13A/0,03A

Symbol	Pin	Indi cazione Target		
	1	-26F1:2	4,0 mm²	or
	2	-27X1:L	1,5 mm²	or
	N1	-26XN2:2	4,0 mm²	hbl
	N2	-27X1:N	1,5 mm²	hbl

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Schema allacciamento apparecchiature
Device connection diagram

+A1-28K1
116699 MT

Symbol	Pin	Indi cazione Target		
	2	-28F1:1	1,5 mm²	sw
	10	-26XN2:3	1,5 mm²	hbl
	4			
	1	-40K1:25	1,0 mm²	ws
	3	-92K1:11	1,5 mm²	rt
	5			
	6			
	7			
	8			
	11			
	9			

+A1-17K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-17B1:12	1,0 mm²	ws
	10	-16K1:A1	1,5 mm²	br
	4			
	1	-80F3:2	1,5 mm²	or
	3	-18K1:1	1,5 mm²	or
	5			
	6	-18K1:7	1,0 mm²	ws
	7	-47K1:31	1,0 mm²	ws
	8			
	11	-39K2:13	1,0 mm²	ws
	9	-95K3:14	1,0 mm²	ws

+A1-18K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-18B1:12	1,0 mm²	ws
	10	-17B1:A2	1,5 mm²	br
	4			
	1	-17K1:3	1,5 mm²	or
	3	-19K1:1	1,5 mm²	or
	5			
	6	-19K1:7	1,0 mm²	ws

Symbol	Pin	Indi cazione Target		
	7	-17K1:6	1,0 mm²	ws
	8			
	11			
	9			

+A1-19K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-19B1:X2_2	1,0 mm²	ws
	10	-18B1:A1	1,5 mm²	br
	4			
	1	-18K1:3	1,5 mm²	or
	3	-81K3:44	1,5 mm²	or
	5			
	6	-81K3:A1	1,0 mm²	ws
	7	-18K1:6	1,0 mm²	ws
	8			
	11			
	9			

+A1-47K3
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-38K1:X1_14	1,0 mm²	ws
	10	-47K2:A2	1,5 mm²	br
	4			
	1	-XE:791	1,5 mm²	or
	3	-12X1:5	1,5 mm²	or
	5			
	6	-XE:792	1,5 mm²	or
	7	-12X3:5	1,5 mm²	or
	8			
	11	-58K5:11	1,0 mm²	ws
	9	-58K3:14	1,0 mm²	ws

+A1-57K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-42K1:12	1,0 mm²	ws
	10	-47K3:10	1,5 mm²	br

Symbol	Pin	Indi cazione Target		
	4			
	1	-81K3:43	1,5 mm²	or
	3	-95K4:1	1,5 mm²	or
	5			
	6	-82K1:13	1,0 mm²	ws
	7	-20K4:54	1,0 mm²	ws
	8	-81K3:21	1,5 mm²	or
	11	-81K3:22	1,5 mm²	or
	9			

+A1-58K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-42K2:11	1,0 mm²	ws
	10	-57K1:10	1,5 mm²	br
	4			
	1	-58K2:3	1,0 mm²	ws
	3	-16K1:31	1,0 mm²	ws
	5			
	6			
	7			
	8			
	11			
	9			

+A1-58K2
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-42K2:21	1,0 mm²	ws
	10	-58K1:10	1,5 mm²	br
	4			
	1	-79K1:2	1,0 mm²	ws
	3	-58K1:1	1,0 mm²	ws
	5			
	6	-79K1:3	1,5 mm²	or
	7	-81K3:14	1,5 mm²	or
	8	-47K1:44	1,0 mm²	ws
	11	-47K1:41	1,0 mm²	ws
	9			

+A1-58K4
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-42K2:22	1,0 mm²	ws
	10	-58K2:10	1,5 mm²	br
	4			
	1	-XE:438	1,5 mm²	or
	3	-XE:439	1,5 mm²	or
	5			
	6			
	7			
	8			
	11			
	9			

+A1-79K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-58K2:1	1,0 mm²	ws
	10	-58K4:10	1,5 mm²	br
	4			
	1	-80F2:2	1,5 mm²	or
	3	-58K2:6	1,5 mm²	or
	5	-96K2:6	1,5 mm²	or
	6	-XCB:105	1,5 mm²	or
	7			
	8	-81K3:32	1,0 mm²	ws
	11	-39K2:14	1,0 mm²	ws
	9			

+A1-95K4
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-X:367	1,0 mm²	ws
	10	-94K3:A1	1,5 mm²	br
	4			
	1	-57K1:3	1,5 mm²	or
	3	-XCB:110	1,5 mm²	or
	5			
	6	-47K1:34	1,0 mm²	ws

Symbol	Pin	Indi cazione Target		
	7	-X:23	1,0 mm²	ws
	8			
	11	-41K1:23	1,0 mm²	ws
	9	-31K5:34	1,5 mm²	rt

+A1-96K2
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-X:359	1,0 mm²	ws
	10	-96K1:A1	1,5 mm²	br
	4			
	1	-39K2:21	1,0 mm²	ws
	3	-91K1:11	1,5 mm²	rt
	5	-XCB:106	1,5 mm²	or
	6	-79K1:5	1,5 mm²	or
	7			
	8			
	11	-81K3:13	1,5 mm²	or
	9	-XCB:102	1,5 mm²	or

+A1-97K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2	-X:385	1,0 mm²	ws
	10	-96K2:10	1,5 mm²	br
	4			
	1	-39K1:12	1,0 mm²	ws
	3	-18B1:A2	1,5 mm²	rt
	5			
	6			
	7			
	8			
	11			
	9			

+A1-98K1
350960 MT

Symbol	Pin	Indi cazione Target		
	2			
	10	-97K1:10	1,5 mm²	br

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema allacciamento apparecchiature
			Desig.	Streiter Daniela			Device connection diagram
			Print	11.03.2015	CPL JMS 612 F02 Politecnico		
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8	

SO-Nr. Project: 22553 | =
Suffix | + A1
Wiring Diagram J T132 | Page 116

Schema allacciamento apparecchiature
Device connection diagram

+A1-98K1
350960 MT

Symbol	Pin	Indi cazione Target		
	4			
	1			
	3			
	5			
	6			
	7			
	8			
	11			
	9			

+A1-57K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K1:24	1,0 mm²	WS
	A2	-58K3:A2		
	12			
	11	-X:383	1,0 mm²	WS
	14	-16K1:A2	1,0 mm²	WS

+A1-58K3
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K2:12	1,0 mm²	WS
	A2	-57K2:A2		
	12			
	11	-79R2:K	1,0 mm²	WS
	14	-47K3:9	1,0 mm²	WS

+A1-58K5
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K2:14	1,0 mm²	WS
	A2	-58K3:A2		
	12			
	11	-16K1:34	1,0 mm²	WS
	14	-58K1:3	1,0 mm²	WS

+A1-61K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K3:12	1,0 mm²	WS
	A2	-58K5:A2		
	12			
	11	-XS:569	1,0 mm²	WS
	14	-XS:568	1,0 mm²	WS

+A1-61K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-61K1:A1	1,0 mm²	WS
	A2	-61K1:A2		
	12			
	11	-XS:577	1,0 mm²	WS
	14	-XS:576	1,0 mm²	WS

+A1-61K3
363865

Symbol	Pin	Indi cazione Target		
	A1	-61K2:A1	1,0 mm²	WS
	A2	-61K2:A2		
	12			
	11	-XS:589	1,0 mm²	WS
	14	-XS:588	1,0 mm²	WS

+A1-83K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K1:14	1,0 mm²	WS
	A2	-83K2:A2		
	12			
	11	+P1-SSL18:NO1		
	14	+P1-SSL18:NO2		

+A1-83K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-83K1:A1	1,0 mm²	WS
	A2	-83K1:A2		
	12			
	11	+P1-SSL18:NO3		

Symbol	Pin	Indi cazione Target		
	14	+P1-SSL18:NO4		

+A1-85K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K3:14	1,0 mm²	WS
	A2	-83K2:A2		
	12			
	11			
	14			

+A1-85K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K3:24	1,0 mm²	WS
	A2	-85K1:A2		
	12			
	11			
	14			

+A1-86K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:11	1,0 mm²	WS
	A2	-85K2:A2		
	12			
	11	+P1-SSL50.7:NO1		
	14	+P1-SSL50.7:NO2		

+A1-86K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:21	1,0 mm²	WS
	A2	-86K1:A2		
	12			
	11	+P1-SSL54.2:NO1		
	14	+P1-SSL54.2:NO2		

+A1-86K3
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:12	1,0 mm²	WS
	A2	-86K2:A2		
	12			
	11	+P1-SSL54.4:NO1		
	14	+P1-SSL54.4:NO2		

+A1-86K4
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:22	1,0 mm²	WS
	A2	-86K3:A2		
	12			
	11	+P1-SSL54.5:NO1		
	14	+P1-SSL54.5:NO2		

+A1-86K5
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:13	1,0 mm²	WS
	A2	-86K4:A2		
	12			
	11	+P1-SSL54.6:NO1		
	14	+P1-SSL54.6:NO2		

+A1-86K6
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:23	1,0 mm²	WS
	A2	-86K5:A2		
	12			
	11	+P1-SSL54.7:NO1		
	14	+P1-SSL54.7:NO2		

+A1-86K7
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:14	1,0 mm²	WS
	A2	-86K6:A2		
	12			
	11	+P1-SSL54.8:NO1		
	14	+P1-SSL54.8:NO2		

+A1-86K8
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:24	1,0 mm²	WS
	A2	-86K7:A2		
	12			
	11	+P1-SSL54.9:NO1		
	14	+P1-SSL54.9:NO2		

+A1-87K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:15	1,0 mm²	WS
	A2	-86K8:A2		
	12			
	11	+P1-SSL54.10:NO1		
	14	+P1-SSL54.10:NO2		

+A1-87K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K1:25	1,0 mm²	WS
	A2	-87K1:A2		
	12			
	11	+P1-SSL54.11:NO1		
	14	+P1-SSL54.11:NO2		

+A1-88K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:11	1,0 mm²	WS
	A2	-87K2:A2		
	12			
	11	+P1-SSL55.4:NO1		
	14	+P1-SSL55.4:NO2		

+A1-88K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:21	1,0 mm²	WS
	A2	-88K1:A2		
	12			
	11	+P1-SSL55.6:NO1		

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Schema allacciamento apparecchiature
Device connection diagram

+A1-88K2
363865

Symbol	Pin	Indi cazione Target		
	14	+P1-SSL55.6:NO2		

+A1-88K3
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:12	1,0 mm²	WS
	A2	-88K2:A2		
	12			
	11	+P1-SSL55.7:NO1		
	14	+P1-SSL55.7:NO2		

+A1-88K4
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:22	1,0 mm²	WS
	A2	-88K3:A2		
	12			
	11	+P1-SSL55.8:NO1		
	14	+P1-SSL55.8:NO2		

+A1-88K5
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:13	1,0 mm²	WS
	A2	-88K4:A2		
	12			
	11	+P1-SSL55.9:NO1		
	14	+P1-SSL55.9:NO2		

+A1-88K6
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:23	1,0 mm²	WS
	A2	-88K5:A2		
	12			
	11	+P1-SSL55.10:NO1		
	14	+P1-SSL55.10:NO2		

+A1-88K7
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:14	1,0 mm²	WS
	A2	-88K6:A2		
	12			
	11	+P1-SSL55.11:NO1		
	14	+P1-SSL55.11:NO2		

+A1-88K8
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:24	1,0 mm²	WS
	A2	-88K7:A2		
	12			
	11	+P1-SSL55.12:NO1		
	14	+P1-SSL55.12:NO2		

+A1-89K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-43K2:15	1,0 mm²	WS
	A2	-88K8:A2		
	12			
	11	+P1-SSL55.13:NO1		
	14	+P1-SSL55.13:NO2		

+A1-90K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K1:23	1,0 mm²	WS
	A2	-90K2:A2		
	12	+P1-SSL14:1		
	11	+P1-SSL14:2		
	14	+P1-SSL14:3		

+A1-90K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K1:22	1,0 mm²	WS
	A2	-90K1:A2		
	12	+P1-SSL17:1		
	11	+P1-SSL17:2		

Symbol	Pin	Indi cazione Target		
	14	+P1-SSL17:3		

+A1-90K3
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K1:13	1,0 mm²	WS
	A2	-90K2:A2		
	12	+P1-SSL20:1		
	11	+P1-SSL20:2		
	14	+P1-SSL20:3		

+A1-90K4
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K1:11	1,0 mm²	WS
	A2	-90K3:A2		
	12	+P1-SSL21:1		
	11	+P1-SSL21:2		
	14	+P1-SSL21:3		

+A1-90K5
363865

Symbol	Pin	Indi cazione Target		
	A1	-42K1:21	1,0 mm²	WS
	A2	-90K4:A2		
	12	+P1-SSL22:1		
	11	+P1-SSL22:2		
	14	+P1-SSL22:3		

+A1-90K6
363865

Symbol	Pin	Indi cazione Target		
	A1	-38K1:X1_12	1,0 mm²	WS
	A2	-90K5:A2		
	12	+P1-SSL30:1		
	11	+P1-SSL30:2		
	14	+P1-SSL30:3		

+A1-91K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:301	1,0 mm²	WS
	A2	-61K3:A2		
	12			
	11	-91K2:11	1,5 mm²	rt
	14	-39K2:11	1,0 mm²	WS

+A1-91K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:305	1,0 mm²	WS
	A2	-91K1:A2		
	12			
	11	-21K2:13	1,5 mm²	rt
	14	-39K1:26	1,0 mm²	WS

+A1-92K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:433	1,0 mm²	WS
	A2	-91K2:A2		
	12			
	11	-94K1:11	1,5 mm²	rt
	14	-40K1:15	1,0 mm²	WS

+A1-92K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:331	1,0 mm²	WS
	A2	-92K1:A2		
	12			
	11	-28K1:3	1,5 mm²	rt
	14	-40K2:26	1,0 mm²	WS

+A1-92K3
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:333	1,0 mm²	WS
	A2	-92K2:A2		
	12			
	11	-97K2:11	1,5 mm²	rt
	14	-40K1:11	1,0 mm²	WS

+A1-92K4
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:335	1,0 mm²	WS
	A2	-92K3:A2		
	12			
	11	-92K3:11	1,5 mm²	rt
	14	-40K1:21	1,0 mm²	WS

+A1-92K5
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:337	1,0 mm²	WS
	A2	-92K4:A2		
	12			
	11			
	14			

+A1-92K6
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:339	1,0 mm²	WS
	A2	-92K5:A2		
	12			
	11	-92K4:11	1,5 mm²	rt
	14	-40K1:12	1,0 mm²	WS

+A1-92K7
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:341	1,0 mm²	WS
	A2	-92K6:A2		
	12			
	11	-92K6:11	1,5 mm²	rt
	14	-40K1:22	1,0 mm²	WS

+A1-92K8
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:343	1,0 mm²	WS
	A2	-92K7:A2		
	12			
	11	-92K7:11	1,5 mm²	rt

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Schema allacciamento apparecchiature
Device connection diagram

+A1-92K8
363865

Symbol	Pin	Indi cazione Target		
	14	-40K1:13	1,0 mm²	ws

+A1-92K9
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:345	1,0 mm²	ws
	A2	-92K8:A2		
	12			
	11			
	14			

+A1-93K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:373	1,0 mm²	ws
	A2	-92K9:A2		
	12			
	11	-82K1:21	1,5 mm²	rt
	14	-39K4:24	1,0 mm²	ws

+A1-93K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:375	1,0 mm²	ws
	A2	-93K1:A2		
	12			
	11	-93K1:11	1,5 mm²	rt
	14	-39K4:25	1,0 mm²	ws

+A1-93K3
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:377	1,0 mm²	ws
	A2	-93K2:A2		
	12			
	11			
	14			

+A1-93K4
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:379	1,0 mm²	ws
	A2	-93K3:A2		
	12			
	11			
	14			

+A1-93K5
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:381	1,0 mm²	ws
	A2	-93K4:A2		
	12			
	11			
	14			

+A1-94K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:353	1,0 mm²	ws
	A2	-93K5:A2		
	12			
	11	-92K8:11	1,5 mm²	rt
	14	-40K1:23	1,0 mm²	ws

+A1-94K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:431	1,0 mm²	ws
	A2	-94K1:A2		
	12			
	11	-94K3:24	1,5 mm²	rt
	14	-39K3:12	1,0 mm²	ws

+A1-95K1
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:361	1,0 mm²	ws
	A2	-94K2:A2		
	12			
	11	-96K2:3	1,5 mm²	rt

Symbol	Pin	Indi cazione Target		
	14	-39K2:12	1,0 mm²	ws

+A1-95K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:363	1,0 mm²	ws
	A2	-95K1:A2		
	12			
	11	-95K1:11	1,5 mm²	rt
	14	-39K2:22	1,0 mm²	ws

+A1-95K3
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:365	1,0 mm²	ws
	A2	-95K2:A2		
	12			
	11	-95K2:11	1,5 mm²	rt
	14	-17K1:9	1,0 mm²	ws

+A1-97K2
363865

Symbol	Pin	Indi cazione Target		
	A1	-X:387	1,0 mm²	ws
	A2	-95K3:A2		
	12			
	11	-93K2:11	1,5 mm²	rt
	14	-39K4:16	1,0 mm²	ws

+A1-98K3
363865

Symbol	Pin	Indi cazione Target		
	A1			
	A2	-97K2:A2		
	12			
	11			
	14			

+A1-98K4
363865

Symbol	Pin	Indi cazione Target		
	A1			
	A2	-98K3:A2		
	12			
	11			
	14			

+A1-98K5
363865

Symbol	Pin	Indi cazione Target		
	A1			
	A2	-89K1:A2		
	12			
	11			
	14			

+A1-98K6
363865

Symbol	Pin	Indi cazione Target		
	A1			
	A2	-98K5:A2		
	12			
	11			
	14			

+A1-98K7
363865

Symbol	Pin	Indi cazione Target		
	A1			
	A2	-90K6:A2		
	12			
	11			
	14			

+A1-29Q1
374524 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-29Q2:22	1,0 mm²	ws
	A2	-21K2:A2	1,5 mm²	br
	1			
	2			
	3			
	4			
	5			
	6			
	13			
	14			
	21	-43K3:25	1,0 mm²	ws
	22	-29K1:24	1,0 mm²	ws
	31			
	32			
	43			
	44			
	53	-XE:417	1,5 mm²	or
	54	-XE:416	1,5 mm²	or

+A1-29Q2
374524 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-29K1:21	1,0 mm²	ws
	A2	-29Q1:A2	1,5 mm²	br
	1			
	2			
	3			
	4			
	5			
	6			
	13			
	14			
	21	-43K3:15	1,0 mm²	ws
	22	-29Q1:A1	1,0 mm²	ws
	31			
	32			
	43			
	44			
	53	-XE:419	1,5 mm²	or
	54	-XE:418	1,5 mm²	or

+A1-30Q1
374524 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-30Q2:22	1,0 mm²	ws

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema allacciamento apparecchiature
			Desig.	Streiter Daniela			Device connection diagram
			Print	11.03.2015	CPL JMS 612 F02 Politecnico		
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8	

SO-Nr. Project: 22553 | =

Suffix | + A1

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Schema allacciamento apparecchiature
Device connection diagram

+A1-30Q1
374524 — 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A2	-29K1:A1	1,5 mm²	br
	1			
	2			
	3			
	4			
	5			
	6			
	13			
	14			
	21	-43K3:26	1,0 mm²	ws
	22	-30K1:24	1,0 mm²	ws
	31			
	32			
	43			
	44			
	53	-XE:413	1,5 mm²	or
	54	-XE:412	1,5 mm²	or

+A1-30Q2
374524 — 4kW/24VDC

Symbol	Pin	Indi cazione Target		
	A1	-30K1:21	1,0 mm²	ws
	A2	-30Q1:A2	1,5 mm²	br
	1			
	2			
	3			
	4			
	5			
	6			
	13			
	14			
	21	-43K3:16	1,0 mm²	ws
	22	-30Q1:A1	1,0 mm²	ws
	31			
	32			
	43			

Symbol	Pin	Indi cazione Target		
	44			
	53	-XE:415	1,5 mm²	or
	54	-XE:414	1,5 mm²	or

+A1-47K2
456598 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-38K1:X1_13	1,0 mm²	ws
	A2	-47K1:A1	1,5 mm²	br
	13			
	14			
	21			
	22			
	33			
	34			
	43	-79R3:K	1,0 mm²	ws
	44	-47K3:9	1,0 mm²	ws

+A1-81K1
510078 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-21K2:54	1,0 mm²	ws
	A2	-79K1:10	1,5 mm²	br
	13	-X:20	1,0 mm²	ws
	14	-20K4:53	1,0 mm²	ws
	21			
	22			
	31			
	32			
	43	-94K2:11	1,5 mm²	rt
	44	-39K4:23	1,0 mm²	ws

+A1-81K3
510078 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-19K1:6	1,0 mm²	ws
	A2	-81K2:A1	1,5 mm²	br
	13	-96K2:11	1,5 mm²	or
	14	-58K2:7	1,5 mm²	or
	21	-79K1:5	1,5 mm²	or

Symbol	Pin	Indi cazione Target		
	22	-79K1:6	1,5 mm²	or
	31	-80F1:2	1,5 mm²	rt
	32	-79K1:8	1,0 mm²	ws
	43	-57K1:1	1,5 mm²	or
	44	-19K1:3	1,5 mm²	or

+A1-82K1
510078 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-X:319	1,0 mm²	ws
	A2	-81K3:A2	1,5 mm²	br
	13	-57K1:6	1,0 mm²	ws
	14	-82K2:13	1,0 mm²	ws
	21	-81K1:43	1,5 mm²	rt
	22	-82K2:21	1,0 mm²	ws
	31			
	32			
	43			
	44			

+A1-82K2
510078 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-82K1:A1	1,0 mm²	ws
	A2	-82K1:A2	1,5 mm²	br
	13	-82K1:14	1,0 mm²	ws
	14	-X:21	1,0 mm²	ws
	21	-82K1:22	1,0 mm²	ws
	22	-39K4:14	1,0 mm²	ws
	31			
	32			
	43			
	44			

+A1-20K2
583320 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-20K1:12	1,0 mm²	ws
	A2	-19K1:10	1,5 mm²	br
	13	-96K1:14	1,5 mm²	rt

Symbol	Pin	Indi cazione Target		
	14	-39K1:15	1,0 mm²	ws
	23			
	24			
	33			
	34			
	43	-XE:407	1,5 mm²	or
	44	-XE:406	1,5 mm²	or
	53			
	54			
	61	-20K4:61	1,0 mm²	ws
	62	-XS:566	1,0 mm²	ws
	71	-20K4:71	1,0 mm²	ws
	72	-XS:574	1,0 mm²	ws
	83			
	84			

+A1-20K3
583320 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-20K2:A1	1,0 mm²	ws
	A2	-20K2:A2	1,5 mm²	br
	13			
	14			
	23			
	24			
	33			
	34			
	43			
	44			
	53			
	54			
	61			
	62			
	71	-20K6:71	1,0 mm²	ws
	72	-XS:586	1,0 mm²	ws
	83			
	84			

+A1-20K4
583320 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-20K1:15	1,0 mm²	ws
	A2	-20K3:A2	1,5 mm²	br
	13	-20K2:13	1,5 mm²	rt
	14	-39K1:25	1,0 mm²	ws
	23			
	24			
	33			
	34			
	43	-XE:409	1,5 mm²	or
	44	-XE:408	1,5 mm²	or
	53	-81K1:14	1,0 mm²	ws
	54	-57K1:7	1,0 mm²	ws
	61	-20K2:61	1,0 mm²	ws
	62	-20K2:62	1,0 mm²	ws
	71	-20K2:71	1,0 mm²	ws
	72	-20K2:72	1,0 mm²	ws
	83			
	84			

+A1-20K6
583320 — 24VDC

Symbol	Pin	Indi cazione Target		
	A1	-20K4:A1	1,0 mm²	ws
	A2	-20K4:A2	1,5 mm²	br
	13			
	14			
	23			
	24			
	33			
	34			
	43			
	44			
	53			
	54			
	61			
	62			

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema allacciamento apparecchiature
			Desig.	Streiter Daniela			Device connection diagram
			Print	11.03.2015	CPL JMS 612 F02 Politecnico		
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric P8	

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Suffix | + A1
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Schema allacciamento apparecchiature
Device connection diagram

+A1-20K6
583320 — 24VDC

Symbol	Pin	Indi cazione Target		
71 / 72	71	-20K3:71	1,0 mm²	ws
	72	-20K3:72	1,0 mm²	ws
83 / 84	83			
	84			

+A1-21K2
583320 — 24VDC

Symbol	Pin	Indi cazione Target		
A1 / A2	A1	-21K1:X3_4	1,0 mm²	ws
	A2	-20K6:A2	1,5 mm²	br
13 / 14	13	-20K4:13	1,5 mm²	rt
	14	-39K1:16	1,0 mm²	ws
23 / 24	23			
	24			
33 / 34	33			
	34			
43 / 44	43			
	44			
53 / 54	53	-94K3:11	1,0 mm²	ws
	54	-81K1:A1	1,0 mm²	ws
61 / 62	61			
	62			
71 / 72	71			
	72			
83 / 84	83	-XE:411	1,5 mm²	or
	84	-XE:410	1,5 mm²	or

+A1-16K1
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-57K2:14	1,0 mm²	ws
	A1	-XM:1b	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-39K4:26	1,0 mm²	ws

Symbol	Pin	Indi cazione Target		
22 / 21	24	-57K2:11	1,0 mm²	ws
32 / 31	32			
	31	-58K1:3	1,0 mm²	ws
	34	-96K1:31	1,0 mm²	ws
42 / 41	42			
	41			
	44			

+A1-29K1
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-X:162	1,0 mm²	ws
	A1	-29Q2:A2	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-29Q2:A1	1,0 mm²	ws
	24	-29Q1:22	1,0 mm²	ws
32 / 31	32			
	31			
34	34			
42 / 41	42			
	41			
	44			

+A1-30K1
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-X:167	1,0 mm²	ws
	A1	-30Q2:A2	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-30Q2:A1	1,0 mm²	ws
	24	-30Q1:22	1,0 mm²	ws
32 / 31	32			
	31			

Symbol	Pin	Indi cazione Target		
42 / 41	34			
	42			
	41			
	44			

+A1-31K1
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-31K2:21	1,0 mm²	ws
	A1	-30K1:A1	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-XE:200	1,5 mm²	or
	24	-XE:201	1,5 mm²	or
32 / 31	32			
	31			
34	34			
42 / 41	42			
	41			
	44			

+A1-31K2
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-X:197	1,0 mm²	ws
	A1	-31K1:A1	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-31K1:A2	1,0 mm²	ws
	24	-31K3:21	1,0 mm²	ws
32 / 31	32			
	31			
34	34			
42 / 41	42			
	41			

Symbol	Pin	Indi cazione Target		
42 / 41	44			

+A1-31K3
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-X:199	1,0 mm²	ws
	A1	-31K2:A1	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-31K2:24	1,0 mm²	ws
	24	-X:191	1,0 mm²	ws
32 / 31	32	-92K2:11	1,5 mm²	rt
	31	-41K1:11	1,0 mm²	ws
34	34			
42 / 41	42			
	41			
	44			

+A1-31K4
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-31K5:21	1,0 mm²	ws
	A1	-31K3:A1	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-XE:207	1,5 mm²	or
	24	-XE:208	1,5 mm²	or
32 / 31	32			
	31			
34	34			
42 / 41	42			
	41			
	44			

+A1-31K5
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-X:205	1,0 mm²	ws
	A1	-31K4:A1	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-31K4:A2	1,0 mm²	ws
	24	-X:203	1,0 mm²	ws
32 / 31	32			
	31	-41K1:21	1,0 mm²	ws
	34	-31K3:32	1,5 mm²	rt
42 / 41	42			
	41			
	44			

+A1-47K1
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-47K1:41	1,0 mm²	ws
	A1	-31K5:A1	1,5 mm²	br
12 / 11	12			
	11			
14	14			
22 / 21	22			
	21	-39K2:16	1,0 mm²	ws
	24	-95K3:11	1,5 mm²	rt
32 / 31	32			
	31	-17K1:7	1,0 mm²	ws
	34	-95K4:6	1,0 mm²	ws
42 / 41	42			
	41	-47K1:A2	1,0 mm²	ws
	44	-38K1:X1_11	1,0 mm²	ws

+A1-81K2
584729 — HJ

Symbol	Pin	Indi cazione Target		
A2 / A1	A2	-21K2:54	1,0 mm²	ws

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			Date	13.02.2015	1 x JMS 612 GS-N.L	Jenbacher gas engines	Schema allacciamento apparecchiature	SO-Nr. Project: 22553	=
			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico		Device connection diagram	Wiring Diagram J T132	Page 121
Modification	Date	Name	Check	Name	G:\ANLAGEN\TXXX\T1XX\JT132.elk	ePLAN electric			

Schema allacciamento apparecchiature
Device connection diagram

+A1-81K2
584729 HJ

Symbol	Pin	Indi cazione Target		
	A1	-81K1:A2	1,5 mm²	br
	12			
	11			
	14			
	22			
	21			
	24			
	32			
	31			
	34			
	42			
	41	-XE:436	1,5 mm²	or
	44	-XE:437	1,5 mm²	or

+A1-94K3
584729 HJ

Symbol	Pin	Indi cazione Target		
	A2	-X:355	1,0 mm²	ws
	A1	-82K2:A2	1,5 mm²	br
	12			
	11	-21K2:53	1,0 mm²	ws
	14	-X:153	1,0 mm²	ws
	22			
	21	-39K3:11	1,0 mm²	ws
	24	-47K1:24	1,5 mm²	rt
	32			
	31			
	34			
	42			
	41			
	44			

+A1-96K1
584729 HJ

Symbol	Pin	Indi cazione Target		
	A2	-X:357	1,0 mm²	ws
	A1	-95K4:10	1,5 mm²	br
	12			
	11	-39K1:22	1,0 mm²	ws
	14	-97K1:3	1,5 mm²	rt
	22			
	21			
	24			
	32			
	31	-16K1:34	1,0 mm²	ws
	34	-79R1:K	1,0 mm²	ws
	42			
	41			
	44			

+A1-98K2
584729 HJ

Symbol	Pin	Indi cazione Target		
	A2			
	A1	-98K1:10	1,5 mm²	br
	12			
	11			
	14			
	22			
	21			
	24			
	32			
	31			
	34			
	42			
	41			
	44			

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			Desig.	Streiter Daniela				Suffix	+ A1
			Print	11.03.2015	CPL JMS 612 F02 Politecnico			Wiring Diagram J T132	Page 122
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Diagramma PLC
PLC diagram

GE_SPS_Diagramm

Denominazione attacco del simbolo Connection point designation	Descrizione attacco del simbolo Connection point description	Indirizzo simbolico Symbolic address	Testo funzionale Function text	Posizionamento Placement
+A1-40K1	**X20DI9371_P10_7**			
21	DI-2	CustDigIn[1]	Disturbo: pompa dell'acqua di raffreddamento Failure: emergency cooling water pump	/54.1
+A1-44K3	**X20AT4222_P10_17**			
11	Sensor+1	CustAnaIn[2]	Temperature di ritorno Uscita Heating water return temperature Output	/64.1
21	Sensor+2	CustAnaIn[1]	Acqua raffreddamento carica Temperatura Cliente Charge cooling water Temperature Customer	/64.3

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