

EC POWER A/S

SAMSØVEJ 25
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XRGI CONTROL PANEL XRGI STROMLAUFPLAN

20KW GENERATOR (iQ20)
 17ELD1010

WITH MEGACON PHASE MONITORING
 MIT MEGACON PHASEN MONITORING

DRAW NO. 52756T05	THIS DRAWING MAY NOT BE COPIED OR DISCLOSED TO A THIRD PARTY WITHOUT OUR PERMISSION		Print date	21-10-2013	XRGI CONTROL PANEL / STEUERSCHRANK FRONT PAGE / DECKBLATT	PROJECT	FILENAME:17ELD1010 - 52756T05 - 20kw UK
	EC POWER A/S Samsøvej 25 DK - 8382 Hinnerup						DRAWING NO.
		JHS	02-10-2013	52756T05			
	OPR.	JHS	17-12-2010				PAGE:0

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	25	COMPONENTS LIST / STÜCKLISTE	JHS	11-08-2008		21-10-2013

REVISIONS LIST / REVISIONSLISTE

REV.	DATE DATO	PAGE SEITE	DESCRIPTION BESCHREIBUNG
01	12-04-2011		NEW DOCUMENT BASED ON 52533T01
02	15-03-2012	ALL	COMPONENTS UPDATED
03	28-12-2012	7	ADDED FAN
04	28-12-2012		NEW DISPLAY BOARD
05	04-10-2013		PLACEMENT OF SOFTSTARTER AND CONTACTOR CHANGED. KONDENSATOR ADDED TO THE FAN X1 / X3 / X4 / X6 REMOVED
05	04-10-2013		X8 ADDED TRANSIENT PROTECTION ADDED SOFTSTARTER UPDATED
05	04-10-2013		Z19 USED TO K12 K5 MOVED ELECTRICAL K11 NEW TEXT

ELECTRIC DATA / ELEKTRISCHE DATEN

POWER SUPPLY / STROMVERSORGUNG : 3X400VAC+N+PE
 FREQUENCY / NETZFREQUENZ : 50 Hz
 CONTROL VOLTAGE / STEUERSPANNUNG : 24VDC
 MAX. SWITCHBOARD LOAD / MAX. SCHALTSCHRANKBELASTUNG : 40 A
 SUPPLY LINE FUSE / VORSICHERUNG : MIN 50A MAX 63A gL
 SYSTEM EARTHING / NETZSYSTEM : TN-S/TT
 MAX. SWITCHBOARD TEMP. / MAX. SCHALTSCHRANKTEMP. : 40° C
 GRADE OF PROTECTION / SCHUTZART : IP54
 YEAR OF CONSTRUCTION / BAUJAHR : 2011
 NORM / NORM : EN60439-1 / EN60204-1

WIRE COLOUR CODE / ADERNFARBEN

POWER CIRCUITS / HAUPTSTROMKREIS : BLACK / SCHWARZ
 NEUTRAL / NEUTRALLEITER : LIGHT BLUE / HELLBLAU
 PROTECTIVE EARTH / SCHUTZLEITER : GREEN/YELLOW / GELB/GRÜN
 INTERLOCKING AC/DC CIRCUITS AND EXTERNALLY SUPPLIED CIRCUITS / VERRIEGELNDE AC/DC SCHALTUNGEN UND EXTERNE SCHALTUNGEN : ORANGE / ORANGE
 CONTROL CIRCUITS ABOVE 50 V / STEUERSTROMKREISE ÜBER 50 V
 PHASE AC / PHASE AC : BLACK / SCHWARZ
 NEUTRAL AC / NEUTRALLEITER AC : LIGHT BLUE / HELLBLAU
 CONTROL CIRCUITS BELOW 50 V / STEUERSTROMKREISE UNTER 50 V
 PHASE AC / PHASE AC : RED / ROT
 NEUTRAL AC / NEUTRALLEITER AC : GREY / GRAU
 DC+ / DC+ : DARK BLUE / DUNKELBLAU
 0V DC / 0VDC : WHITE / WEIß

WARNING

WHEN DISCONNECTING THE CONTROL PANEL MAIN SWITCH, ITS INPUT-TERMINALS ARE STILL SUPPLIED

THE CONTROL PANEL IS TO BE OPENED BY AUTHORIZED PERSONAL ONLY

ACHTUNG

AUCH BEI AUSGESCHALTETEM HAUPTSCHALTER SIND DIE EINGEBAUTEN GERÄTE NOCH UNTER SPANNUNG

DER SCHALTSCHRANK DARF NUR VON AUTORISIERTEN PERSONEN GEÖFFNET WERDEN

FUSES / SICHERUNGEN

FUSES: THE COMPLETE CURRENT ΣAMP FOR ALL OUTPUTS ARE LIMITED TO 1 AMP.
 SICHERUNGEN: DER GESAMTE SUMMENSTROM ΣAMP FÜR ALLE AUSGÄNGE IST AUF 1 AMP. BEGRENZT

COMP. NO BEZEICHNUNG	FUNCTION / FUNKTION	TYPE / TYP
F1	24VDC INTERNAL FOR DISPLAY CARD (-D2) 24VDC INTERN FÜR DISPLAYKARTE (-D2)	1, 6A
F2	24VDC INTERNAL FOR MOTHERBOARD (-D1) 24VDC INTERN FÜR MOTHERBOARD (-D1)	2, 0A
F3	5VDC INTERNAL FOR DISPLAY CARD (-D2) 5VDC INTERN FÜR DISPLAYKARTE (-D2)	2, 0A
F4	5VDC INTERNAL FOR MOTHERBOARD (-D1) 5VDC INTERN FÜR MOTHERBOARD (-D1)	1, 6A

COLOUR CODE ACCORDING TO IEC 757 /
 FARBCODE ENTSPRECHEND IEC 757

WIRE COLOUR / KABEL FARBE	CODE / CODE	WIRE COLOUR / KABEL FARBE	CODE / CODE
BLACK / SCHWARZ	BK	VIOLET / VIOLET	VT
BROWN / BRAUN	BN	GREY / GRAU	GY
RED / ROT	RD	WHITE / WEIß	WH
ORANGE / ORANGE	OG	PINK / PINK	PK
YELLOW / GELB	YE	GOLD / GOLD	GD
GREEN / GRÜN	GN	TURQUISE / TÜRKIS	TQ
BLUE / BLAU	BU	SILVER / SILBER	SR
GREEN-YELLOW / GELB GRÜN	GNYE		

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XRGI CONTROL PANEL / STEUERSCHRANK
 TECHNICAL DATA / TECHNISCHE DATEN

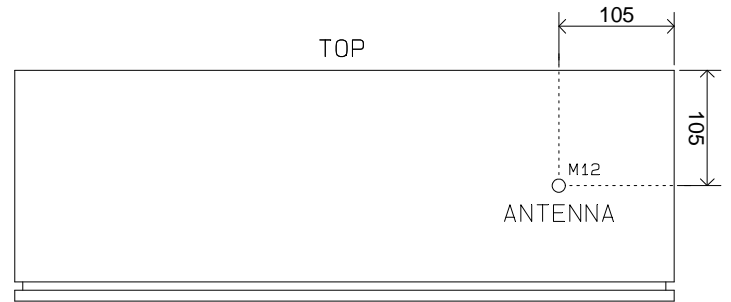
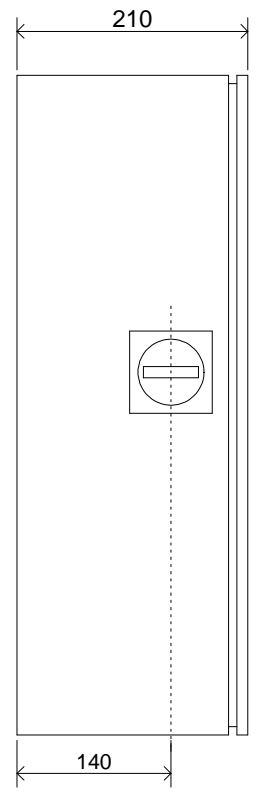
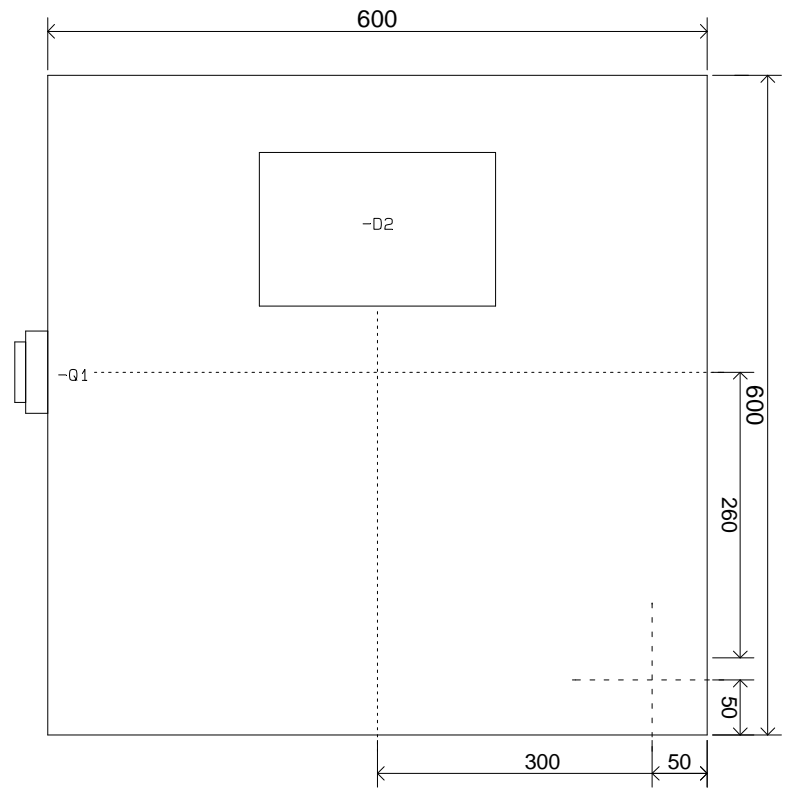
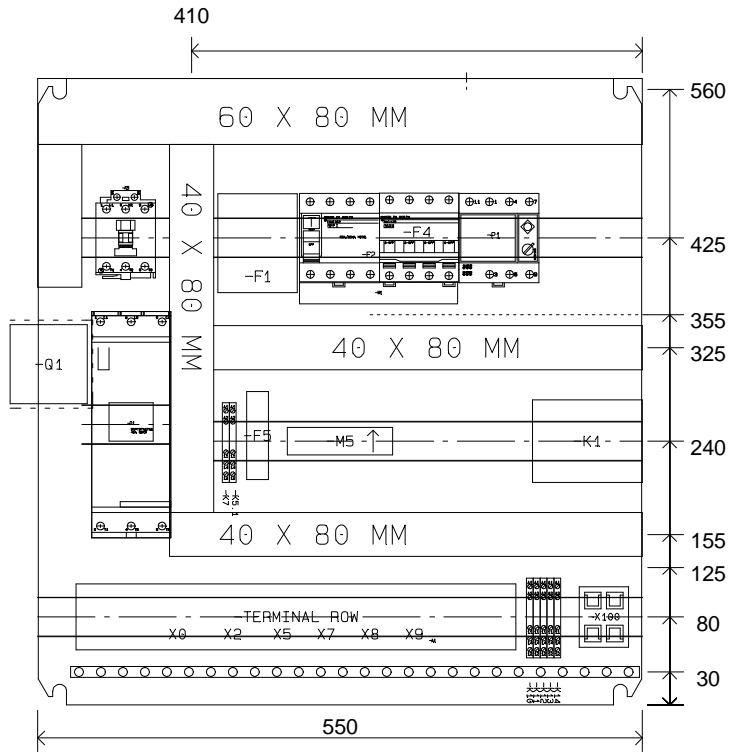
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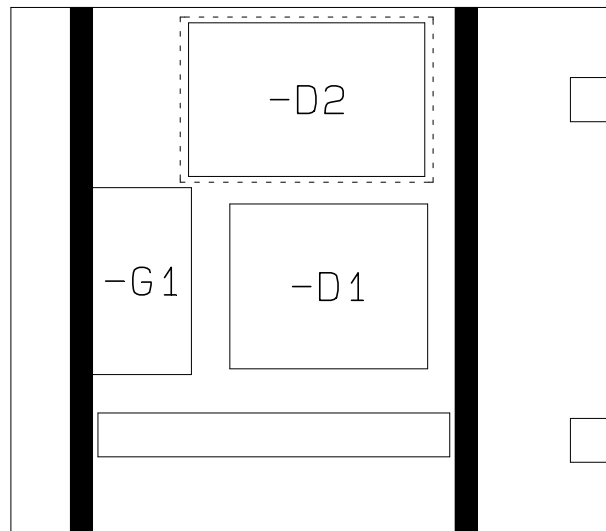
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XRGI CONTROL PANEL / STEUERSCHRANK
MOUNTING PLATE & FRONT LAYOUT /
ANSICHT & AUFBAU

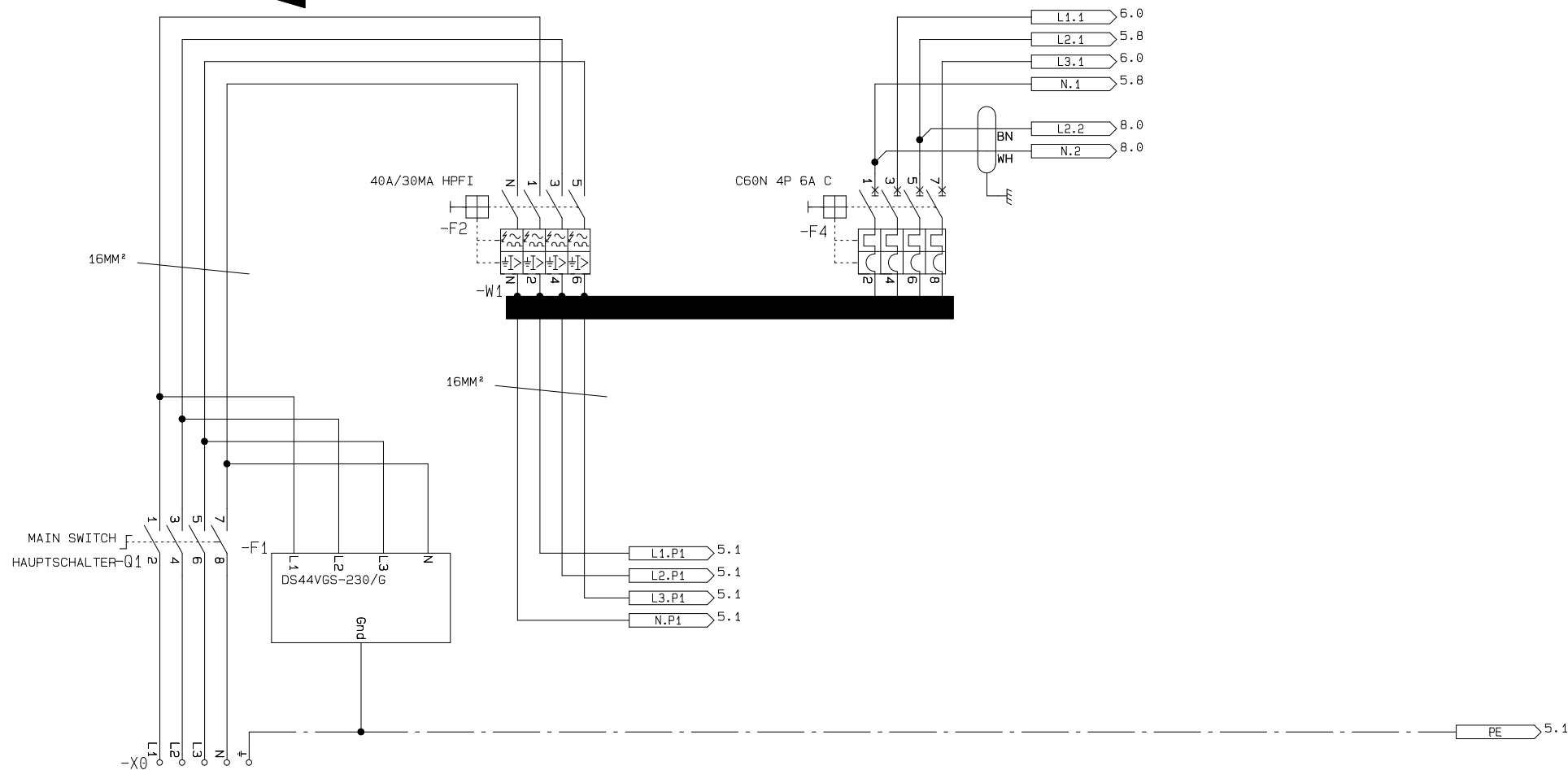
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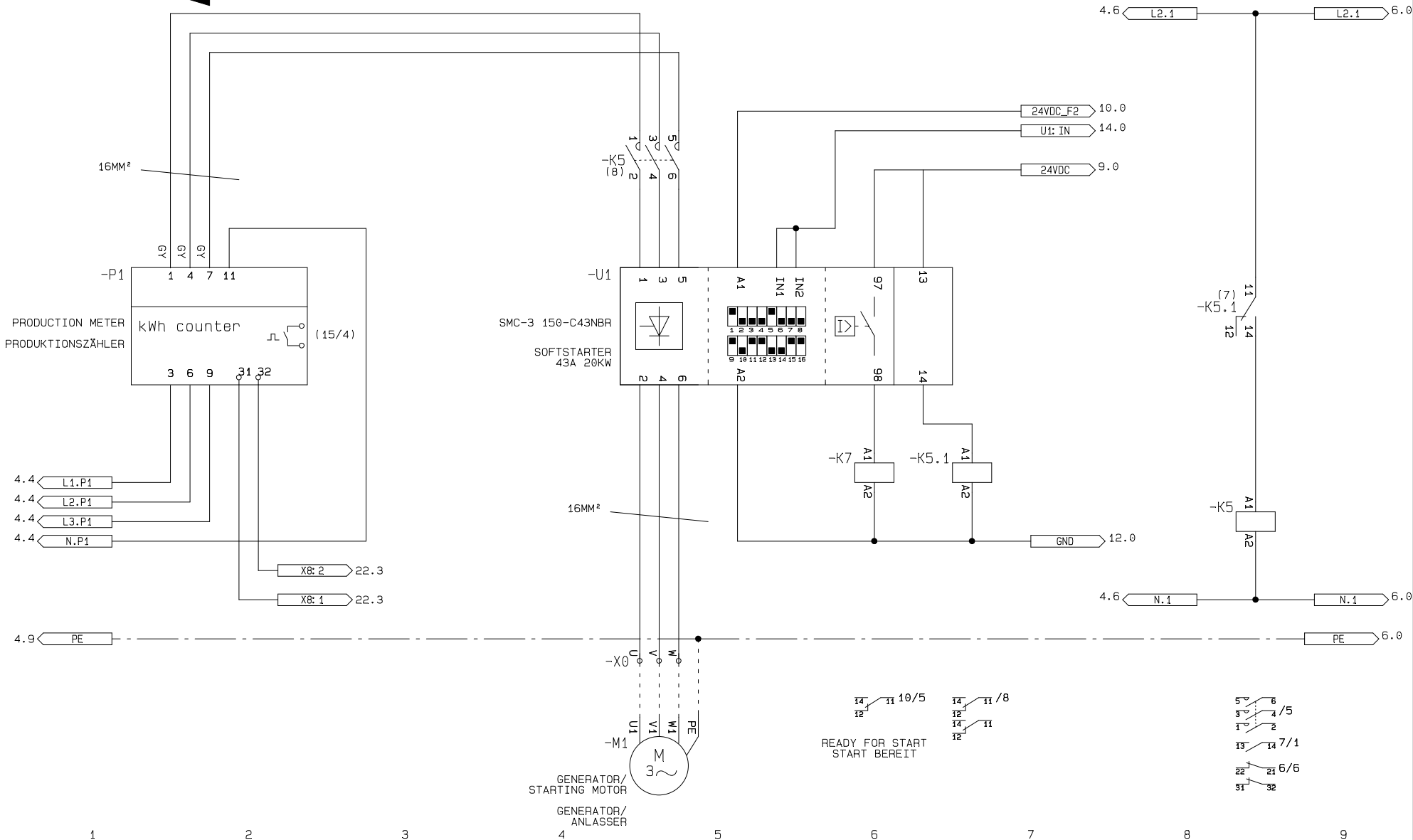


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POWER DIRECTION LOADED GENERATOR / LEISTUNGSRICHTUNG DES GENERATORBETRIEBES



POWER DIRECTION LOADED GENERATOR / LEISTUNGSRICHTUNG DES GENERATORBETRIEBES



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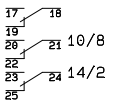
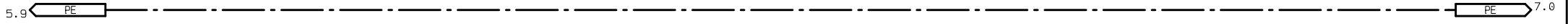
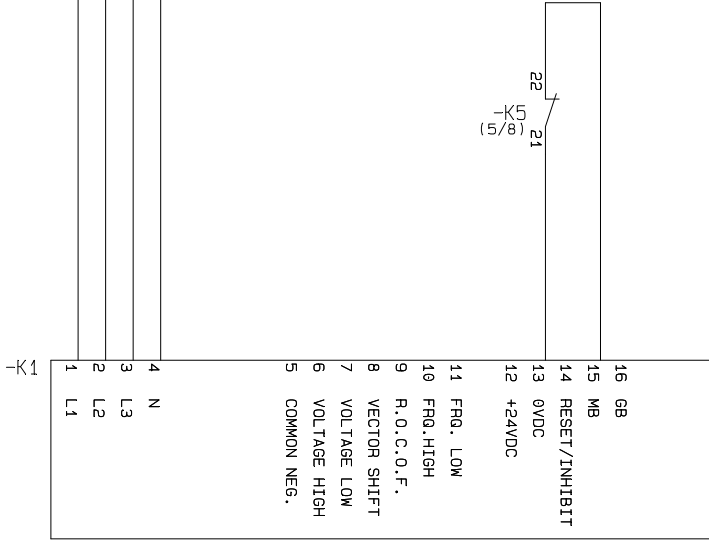
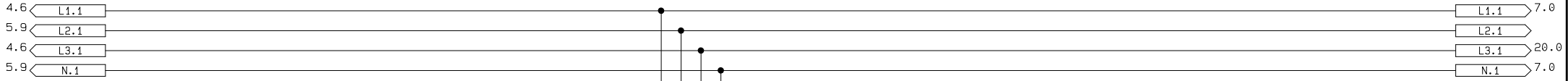
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XRGI CONTROL PANEL / STEUERSCHRANK
GENERATOR / GENERATOR

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XRGI CONTROL PANEL / STEUERSCHRANK
 PHASE MONITORING/
 PHASEN MONITORING

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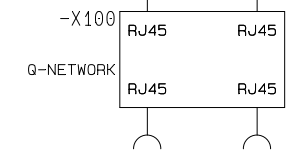
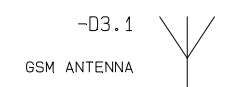
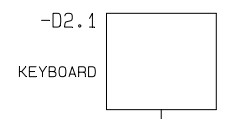
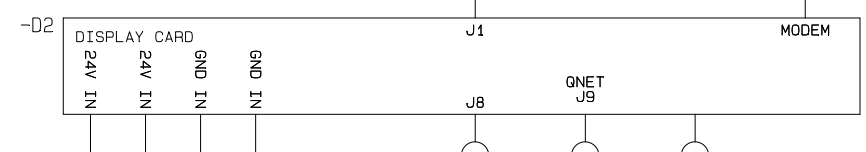
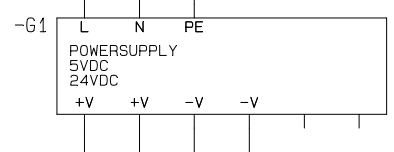
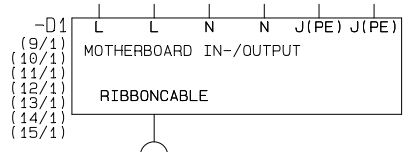
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XRGI CONTROL PANEL / STEUERSCHRANK
POWER SUPPLY CONTROL CIRCUIT/
STROMVERSORGUNG STEUERUNG

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4.6 L2.2
 4.6 N.2
 7.9 PE



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XRGI CONTROL PANEL / STEUERSCHRANK
 POWER SUPPLY /
 STROMVERSORGUNG

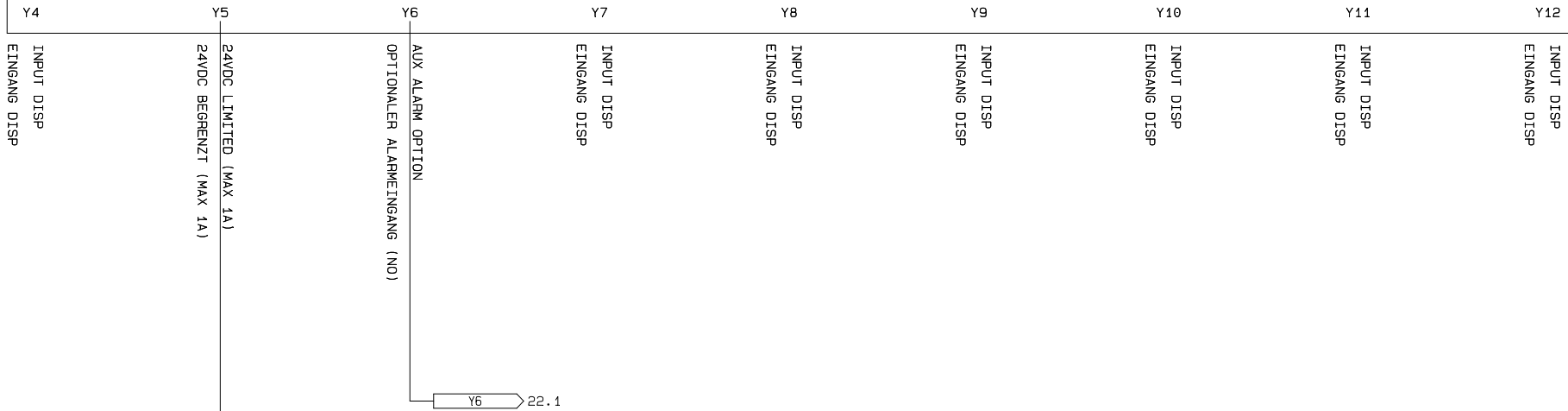
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MOTHERBOARD IN-/OUTPUT



5.7 < 24VDC

24VDC > 10.0

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XRGI CONTROL PANEL / STEUERSCHRANK
MOTHERBOARD Y4-12
INPUT / EINGÄNGE

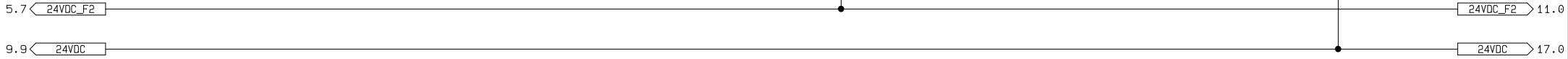
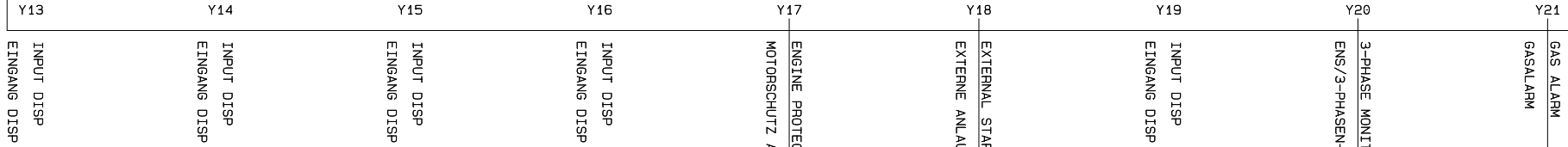
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MOTHERBOARD IN-/OUTPUT



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XRGI CONTROL PANEL / STEUERSCHRANK
MOTHERBOARD Y13-21
INPUT / EINGÄNGE

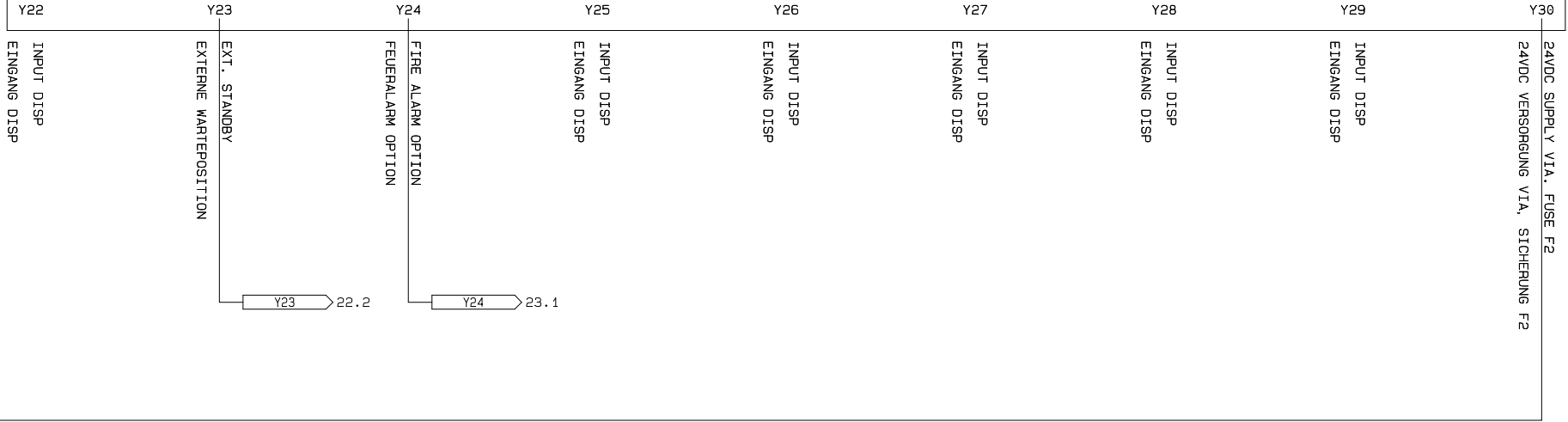
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MOTHERBOARD IN-/OUTPUT



10.9 < 24VDC_F2

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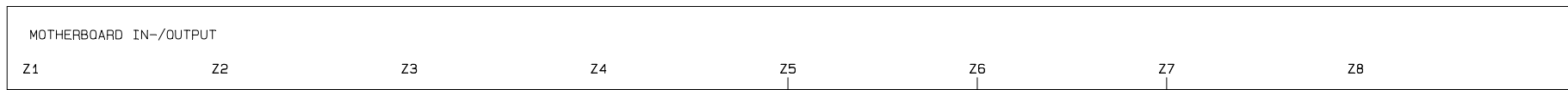
XRGI CONTROL PANEL / STEUERSCHRANK
MOTHERBOARD Y22-30
INPUT / EINGÄNGE

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OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

HEAT PUMP 2
WÄRMEPUMPE 2

24V GND

BETRIEB
RUNNING

OUTPUT DISP
AUSGANG DISP



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XRGI CONTROL PANEL / STEUERSCHRANK

MOTHERBOARD Z1-8
OUTPUT / AUSGÄNGE

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MOTHERBOARD IN-/OUTPUT

Z9

Z10

Z11

Z12

Z13

Z14

Z15

Z16

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

OUTPUT DISP
AUSGANG DISP

12.9 GND

GND 14.0

0

1

2

3

4

5

6

7

8

9

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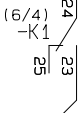
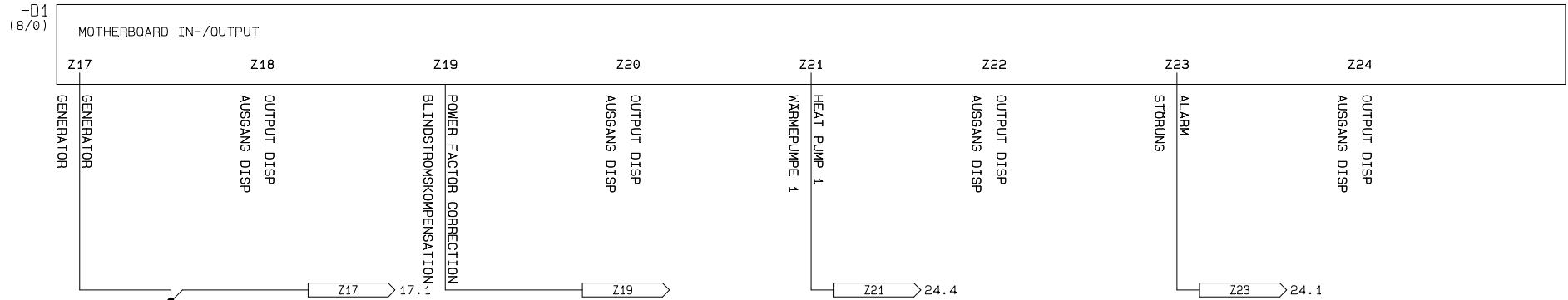
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XRGI CONTROL PANEL / STEUERSCHRANK
MOTHERBOARD Z9-16
OUTPUT / AUSGÄNGE

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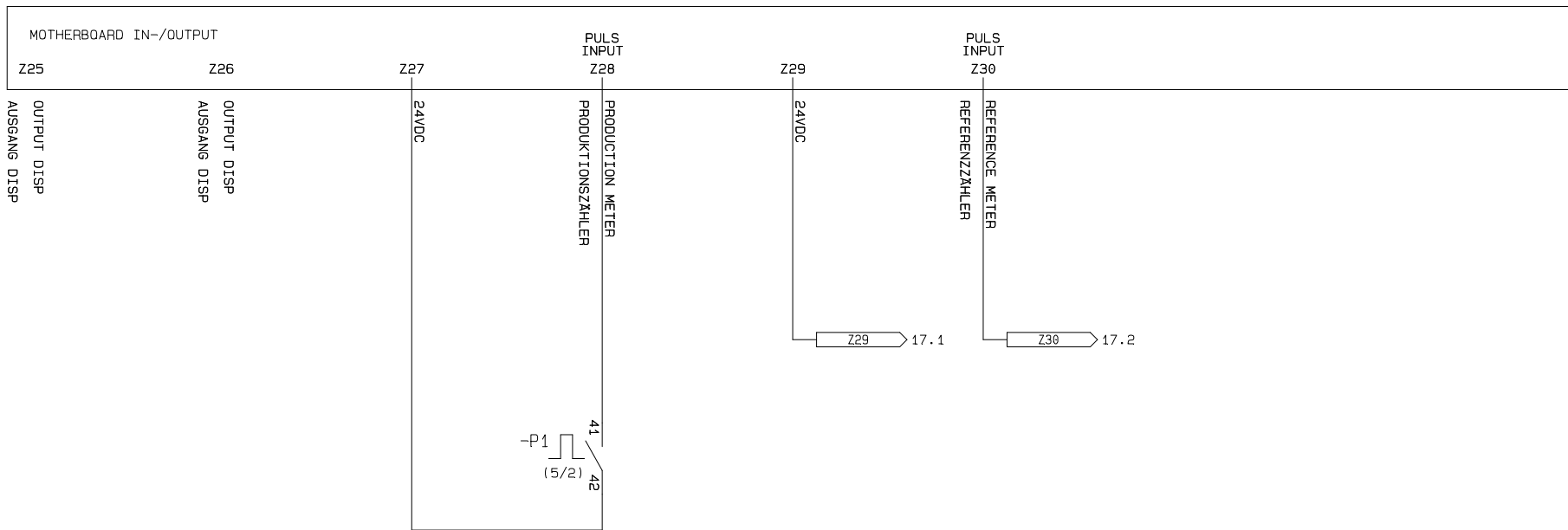
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-D1
(8/0)



14.9 GND 17.0 GND

DIESEL ONLY
NUR DIESEL

PRODUCTION METER
PRODUKTIONSZÄHLER

0 1 2 3 4 5 6 7 8 9

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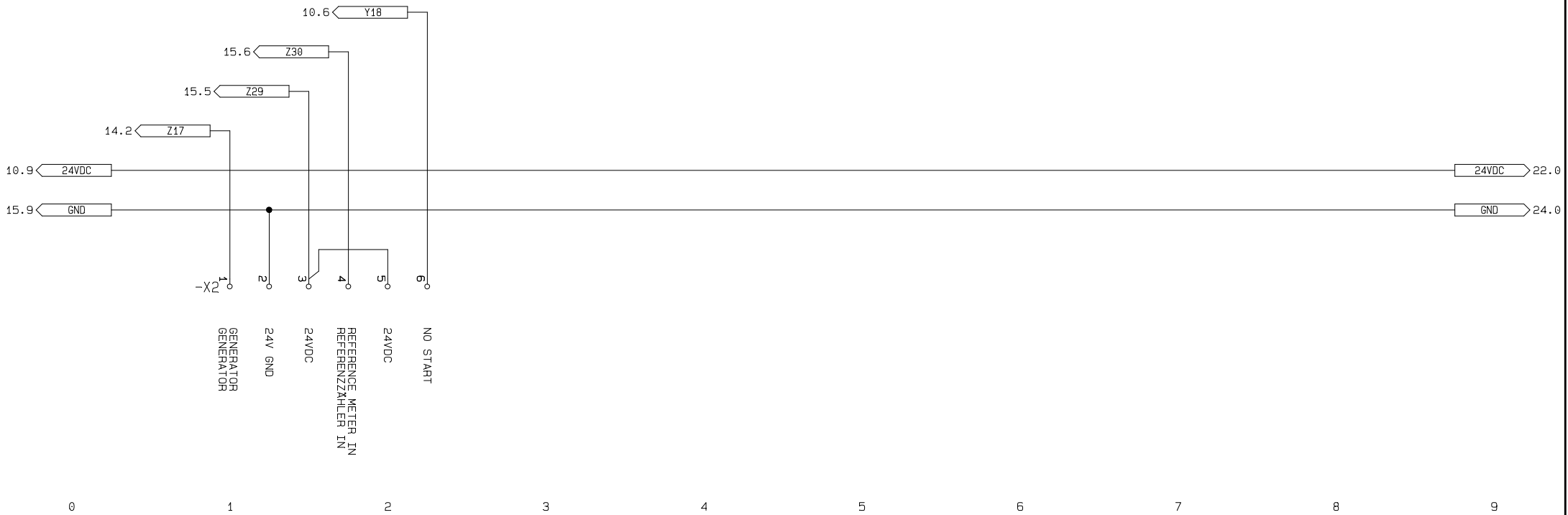
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XRGI CONTROL PANEL / STEUERSCHRANK
MOTHERBOARD Z25-30
OUTPUT / AUSGÄNGE

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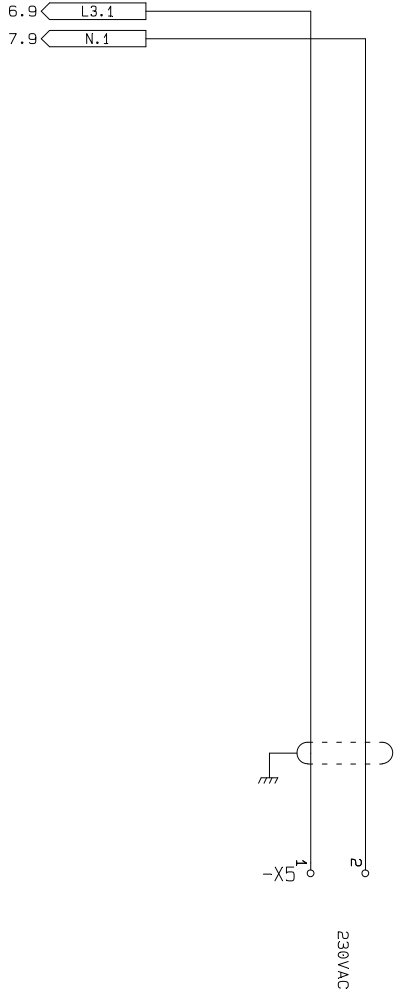
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XRGI CONTROL PANEL / STEUERSCHRANK
TERMINAL ROW X2 /
KLEMMENREIHE X2

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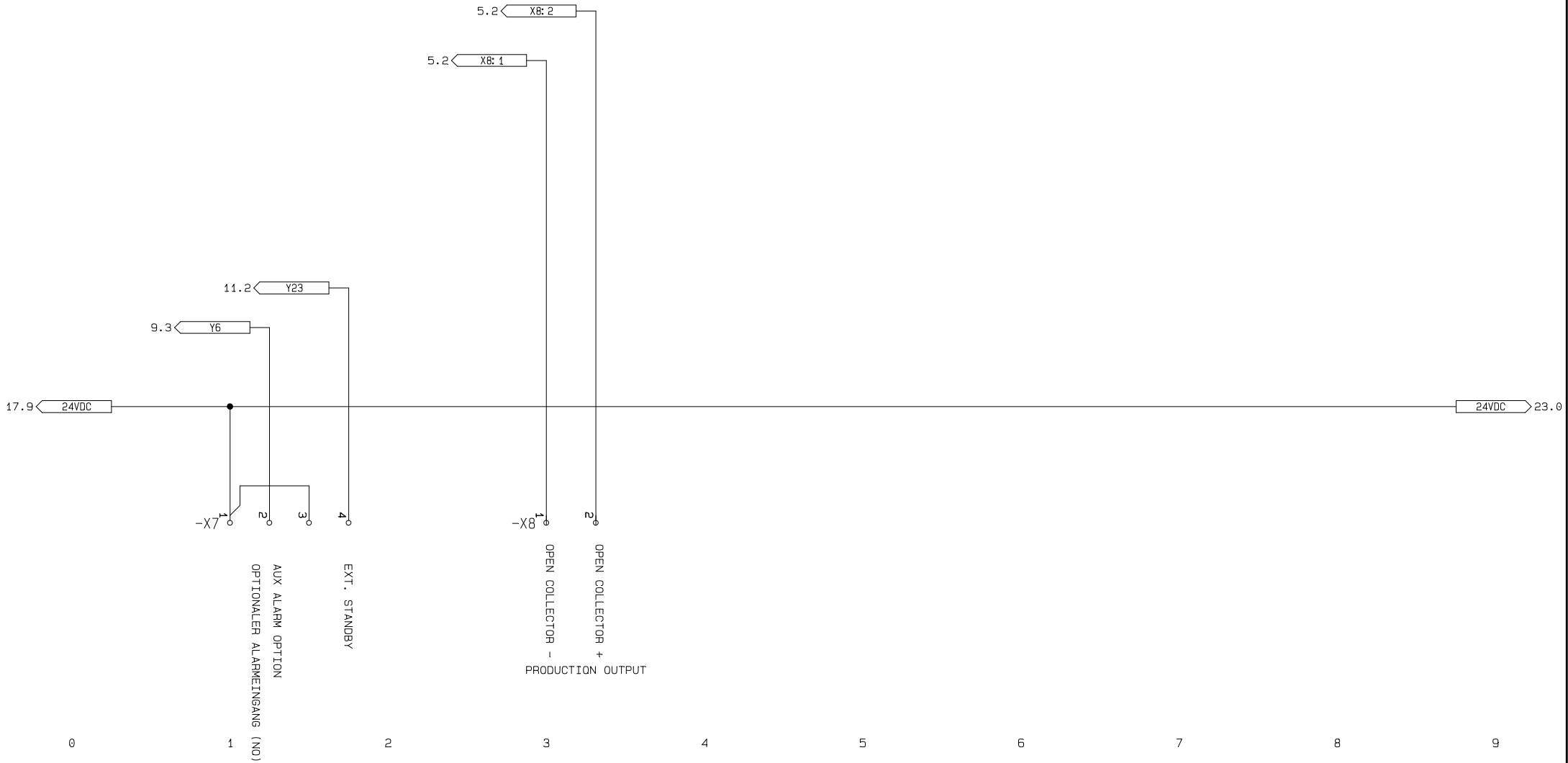
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TERMINAL ROW X5 /
KLEMMENREIHE X5

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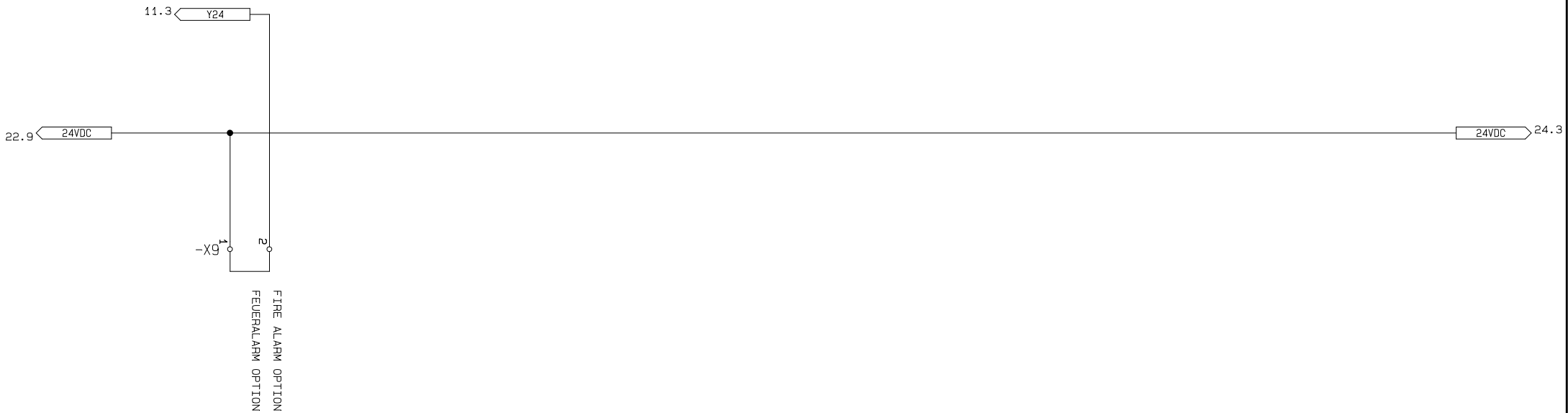
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XRGI CONTROL PANEL / STEUERSCHRANK
TERMINAL ROW X7 / X8
KLEMMENREIHE X7 / X8

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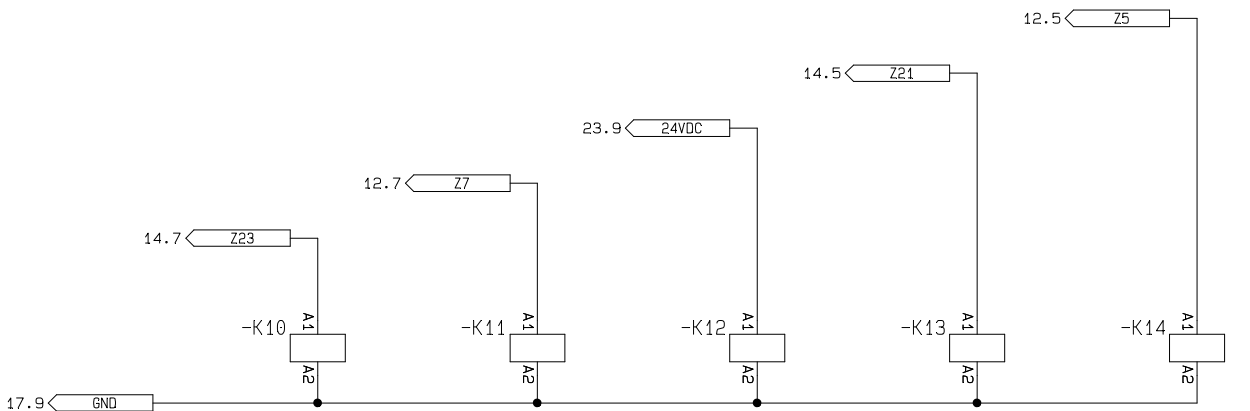
EC POWER A/S
Samsøvej 25
DK - 8382 Hinnerup

Print date	21-10-2013
JHS	02-10-2013
OPR. JHS	17-12-2010

XRGI CONTROL PANEL / STEUERSCHRANK
TERMINAL ROW X9 /
KLEMMENREIHE X9

PROJECT

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ALARM
STRÖMUNG



RUNNING
BETRIEB



POWER FACTOR
CORRECTION
BL INDSTROMSKOMPENSATION



HEAT PUMP 1
WÄRMEPUMPE 1



HEAT PUMP 2
WÄRMEPUMPE 2



0

1

2

3

4

5

6

7

8

9

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EC POWER A/S
Samsøvej 25
DK - 8382 Hinnerup

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XRGI CONTROL PANEL / STEUERSCHRANK
ALARM CONNECTIONS /
ALARM AUSGÄNGE

PROJECT

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DRAW. NO.
52756T05

COMPONENT LIST / STÜCKLISTE

TAG NR.	PCS. ANZAHL	PART NO. ART. NR.	COMPONENT KOMPONENT	MANUFACTURER HERSTELLER
-A1	1	01ELF9131	PANEL 600X600X210 PANEL 600X600X210	EC POWER
-C1	1	SH GSX-V	CAPACITOR 1.5 uF CAPACITOR 1.5 uF	SUNON
-D1	1	01ELF5008	MOTHERBOARD IN-/OUTPUT MOTHERBOARD IN-/OUTPUT	EC POWER
-D2	1	01ELF9124	DISPLAY CARD DISPLAYKARTE	EC POWER
-D2.1	1	01ELF9096	FOAM GASKET F. DISPLAY SCHAUM PACKUNG FÜR DISPLAY	EC POWER
-D2.1	1	01ELT9027	PSC GLASS 130X76X1,5 + FILTER	EC POWER
-D2.1	1	01ELT9034	KEYBOARD iQ20 KEYBOARD iQ20	EC POWER
-D2.2	1	01ELF9100	RIBBON CABLE 34P (F)/90MM/34P(F) FLACHBANDKABEL 34P (F)/90MM/34P(F)	EC POWER
-D2.F1	1	01SPA3448	FUSE 250mA 5X20 SICHERUNG 250mA 5X20	EC POWER
-D2.F2	1	01SPA3078	FUSE 2, 0A 5X20 SICHERUNG 2, 0A 5X20	EC POWER
-D2.F3	1	01SPA3078	FUSE 2, 0A 5X20 SICHERUNG 2, 0A 5X20	EC POWER
-D3.1	1	01ELF9036	ANTENNA ¼ WAVE GSM DUALBAND/FME(F) ANTENNE ¼ WELLE GSM DUALBAND/FME(F)	EC POWER
-F1	1	01ELF9224	SURGE PROTECTION ÜBERSPANNUNGSSCHUTZ	DAN DELEKTRON
-F2	1	01ELF9201	RCCB 4P 40A 30MA	SCHNEIDER

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-F2	1	01ELF9201	RCCB 4P 63A 30MA	SCHNEIDER
-F4	1	01ELF9140	C60N 4P 6A 6kA	SCHNEIDER
-F5	1	01ELF9203	AUTOMATICFUSE 1A 1P+N COMPACT	SCHNEIDER
-G1	1	01ELF9151	METAL CASE FOR PSU - EC POWER	AE PARTNER
-G1	1	01ELF9191	POWER SUPPLY 230VAC/ 24VDC STROMVERSORGUNG 230VAC/ 24VDC	EC POWER
-K1	1	01ELF9136	LOSS OF MAINS PROTECTION RELAY - THREE PHASE 4-WIRE SYSTEM LOSS OF MAINS PROTECTION RELAY - THREE PHASE 4-WIRE SYSTEM	MEGACON
-K5	1	01ELF9135	CONTACTOR 43A 230V50/60HZ CONTACTOR 43A 230V50/60HZ	ALLEN-BRADLEY
-K5	1	01ELF9107	AUX.BLOCK FRONT MOUNTED 2 NO, 2 NC HILFSCHALTERBLOCK 2 NO, 2 NC	ALLEN-BRADLEY
-K5	1	01ELF9137	AUX.BLOCK SIDE MOUNTED 1 NO, 1NC HILFSCHALTERBLOCK SEITLICH 1 NO, 1NC	ALLEN-BRADLEY
-K5.1	1	01ELF9153	PLC-INTERFACE RELAY PLC-INTERFACE RELAY	PHOENIX CONTACT
-K5.1	1	01ELF9105	RELAY SNR 6, 3MM 1CO 24VDC RELAY SNR 6, 3MM 1CO 24VDC	SCHRACK
-K7	1	01ELF9153	PLC-INTERFACE RELAY PLC-INTERFACE RELAY	PHOENIX CONTACT
-K10	1	01ELF9153	PLC-INTERFACE RELAY PLC-INTERFACE RELAY	PHOENIX CONTACT
-K11	1	01ELF9153	PLC-INTERFACE RELAY PLC-INTERFACE RELAY	PHOENIX CONTACT

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TAG NR.	PCS. ANZAHL	PART NO. ART. NR.	COMPONENT KOMPONENT	MANUFACTURER HERSTELLER
-K12	1	01ELF9153	PLC-INTERFACE RELAY PLC-INTERFACE RELAY	PHOENIX CONTACT
-K13	1	01ELF9153	PLC-INTERFACE RELAY PLC-INTERFACE RELAY	PHOENIX CONTACT
-K14	1	01ELF9153	PLC-INTERFACE RELAY PLC-INTERFACE RELAY	PHOENIX CONTACT
-M5	2	01ELF9210	92X92 FINGER GUARD	SUNON
-M5	1	01ELF9211	FAN AC 92x92x25MM 230VAC	SUNON
-M5	1	01ELF9209	FAN HOLDER ADAPTER	AEP
-P1	1	01ELF9126	3 PHASE ENERGY ANALYZER 3 PHASIG ZÄHLER	CARLO GAVAZZI
-Q1	1	01ELF9130	HANDLE RED-YELLOW ON-OFF IP65 DREHGRIF F ROT-GELB ON-OFF IP65	ABB
-Q1	1	01ELF9129	MAIN SWITCH DISCONNECTOR 63A 4P HAUPTSCHALTER VORSATZ SCHWARZ 63A 4P	ABB
-U1	1	01ELF9138	SOFTSTARTER SMC-3 150 C43nBR SOFTSTARTER SMC-3 150 C43nBR	ALLEN BRADLEY
-W1	1	01ELF9132	BUSBAR 4P MAX 100A 3XMCCB BUSBAR 4P MAX 100A 3XMCCB	SCHNEIDER
-X0	2	01ELF9183	END CLAMP, WIDTH 9,5MM END CLAMP, WIDTH 9,5MM	PHOENIX CONTACT
-X0	7	01ELF9181	TERMINAL 1,5MM ² -25MM ² TERMINAL 1,5MM ² -25MM ²	PHOENIX CONTACT
-X0	1	01ELF9182	END COVER, WIDTH 2,2MM END COVER, WIDTH 2,2MM	PHOENIX CONTACT

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TAG NR.	PCS. ANZAHL	PART NO. ART. NR.	COMPONENT KOMPONENT	MANUFACTURER HERSTELLER
-X2	1	01ELF9183	END CLAMP, WIDTH 9,5MM END CLAMP, WIDTH 9,5MM	PHOENIX CONTACT
-X2	6	01ELF9185	TERMINAL 2,5MM ² TERMINAL 2,5MM ²	PHOENIX CONTACT
-X2	1	01ELF9186	END COVER 2,2MM END COVER 2,2MM	PHOENIX CONTACT
-X5	1	01ELF9183	END CLAMP, WIDTH 9,5MM END CLAMP, WIDTH 9,5MM	PHOENIX CONTACT
-X5	2	01ELF9185	TERMINAL 2,5MM ² TERMINAL 2,5MM ²	PHOENIX CONTACT
-X5	1	01ELF9186	END COVER 2,2MM END COVER 2,2MM	PHOENIX CONTACT
-X7	1	01ELF9183	END CLAMP, WIDTH 9,5MM END CLAMP, WIDTH 9,5MM	PHOENIX CONTACT
-X7	4	01ELF9185	TERMINAL 2,5MM ² TERMINAL 2,5MM ²	PHOENIX CONTACT
-X7	1	01ELF9186	END COVER 2,2MM END COVER 2,2MM	PHOENIX CONTACT
-X8	1	01ELF9185	TERMINAL 2,5MM ² TERMINAL 2,5MM ²	PHOENIX CONTACT
-X9	1	01ELF9183	END CLAMP, WIDTH 9,5MM END CLAMP, WIDTH 9,5MM	PHOENIX CONTACT
-X9	2	01ELF9185	TERMINAL 2,5MM ² TERMINAL 2,5MM ²	PHOENIX CONTACT
-X9	1	01ELF9186	END COVER 2,2MM END COVER 2,2MM	PHOENIX CONTACT
-X100	2	01ELF9134	RJ45 PATCH CABEL S/FTP 1MTR. RJ45 PATCH CABEL S/FTP 1MTR.	EC POWER

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