

Customer	:	Herrmann
Project name	:	
Order number	:	
System number	:	PRINTED FORM
Manufacturer (Firm)	:	Herrmann Ultraschalltechnik
Plant designation	:	VE DIALOG d.c. 1000,1700,2000,4000 [TOUCH]
Drawing number	:	09.20
Version	:	21.03.11
Electrical engineering	:	M. Seichter
		Number of pages : 34

PLANT: US-WELDER / AU DIALOG DIGITAL CONTROL 1000 - 5000 TOUCH

ELECTRIC TOTAL POWER CONSUMPTION: 1.5 TO 5.5 KVA
VOLTAGE

LINE VOLTAGE CONTROL UNIT: 230V 50/60HZ
CONTROL VOLTAGE: 24V DC

LINE VOLTAGE GENERATOR: 230V 50/60HZ
1000 AND 2000
LINE VOLTAGE GENERATOR: 400V 50/60HZ
4000 AND 5000

WIRING COLORS IN THE SWITCHGEAR CABINET

PRIMARY CURRENT: BLACK
CONTROL CURRENT: DARK BLUE

TERMINAL BLOCKS ASSIGNMENT

- XE SUPPLEMENTARY FUNCTIONS TOUCH INPUTS
- XA SUPPLEMENTARY FUNCTIONS TOUCH OUTPUTS
- X1 24V DISTRIBUTION/FUNCTIONS
- X5 VOLTAGE SUPPLY
- X10 SIGNAL EXCHANGE EXTERNAL

CONNECTOR	DESCRIPTION	PLUG ASSIGNMENT AND LOC
-11A1/I_0=?	SUPPLEMENTARY FUNCTIONS TOUCH	
-11A1/COM2	INTERFACE TOUCH PK232	
-11A1/COM3	INTERFACE TOUCH PK485	
-11A1/24V	POWER SUPPLY TOUCH	
-12G1/X1	MAINS CONNECTION GENERATOR	
-12G1/X2	INPUTS GENERATOR	
-12G1/X3	OUTPUTS GENERATOR	
-12G1/X4	INTERFACE PK485	
-12G1/X5	MULTIFUNCTION-INTERFACE GENERATOR	
-12G1/X6	INTERFACE PK232 GENERATOR	

CONTROL PANEL RITTAL AE 1031

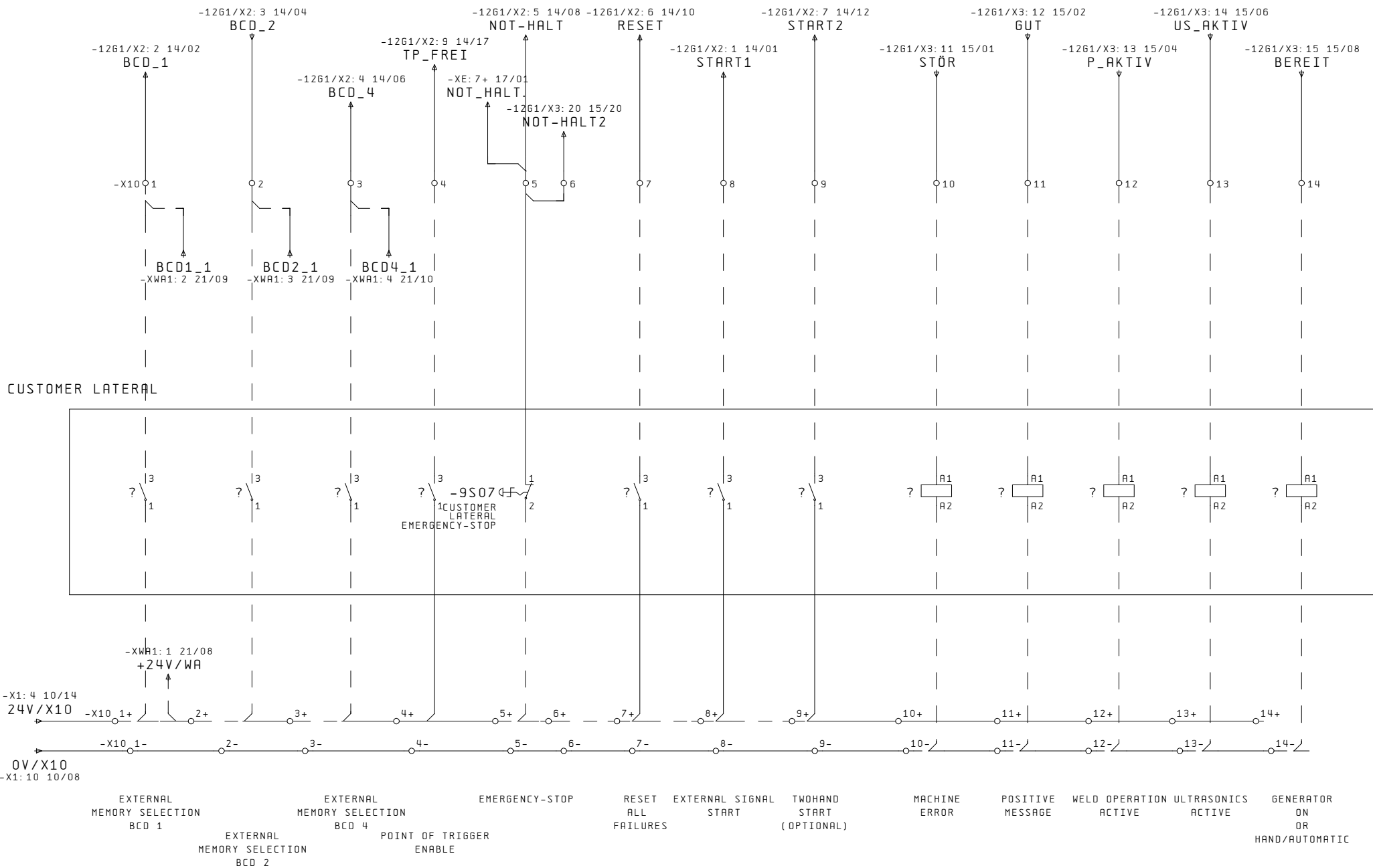
PLANT:US-WELDER FOR THERMO PLASTICS

CONNECTOR	DESIGNATION	PLUG ASSIGNMENT AND LOCATION
-PE=	TERMINAL STRIP GROUND	
-10XB10=	CONNECTOR SUPPLY LEAD 230V	
-12G1/XG1=	CONNECTOR HF AT GENERATOR	
-13XB13=	CONNECTOR PROPORTIONAL VALVE	
-13XB06=	CONNECTOR LINEAR ENCODER	
	CONNECTOR ADVANCE UNIT ABOVE	
-15XB09=	CONNECTOR SOLENOID VALVE	
-15XB13=	CONNECTOR SOLENOID VALVE	
-15XB16=	CONNECTOR SOLENOID VALVE	
-17XB09=	CONNECTOR POSITION SWITCH FUNCTION1	
-17XB12=	CONNECTOR POSITION SWITCH FUNCTION1	
-17XB15=	CONNECTOR POSITION SWITCH FUNCTION2	
-17XB17=	CONNECTOR POSITION SWITCH FUNCTION2	
-18XB04=	CONNECTOR SOLENOID VALVE FUNCTION1	
-18XB08=	CONNECTOR SOLENOID VALVE FUNCTION1	
-18XB13=	CONNECTOR SOLENOID VALVE FUNCTION2	
-18XB18=	CONNECTOR SOLENOID VALVE FUNCTION2	
-XWA1=	CONNECTOR EXTERNAL MEMORY-SELECTION	
-20XB06=	CONNECTOR HF1 AT CONVERTER 35KHZ	
-20XB09=	CONNECTOR GROUND CONVERTER 35KHZ	
-20XB16=?	CONNECTOR HF1 AT CONVERTER 20KHZ	
-20XB20=?	CONNECTOR GROUND CONVERTER 20KHZ	

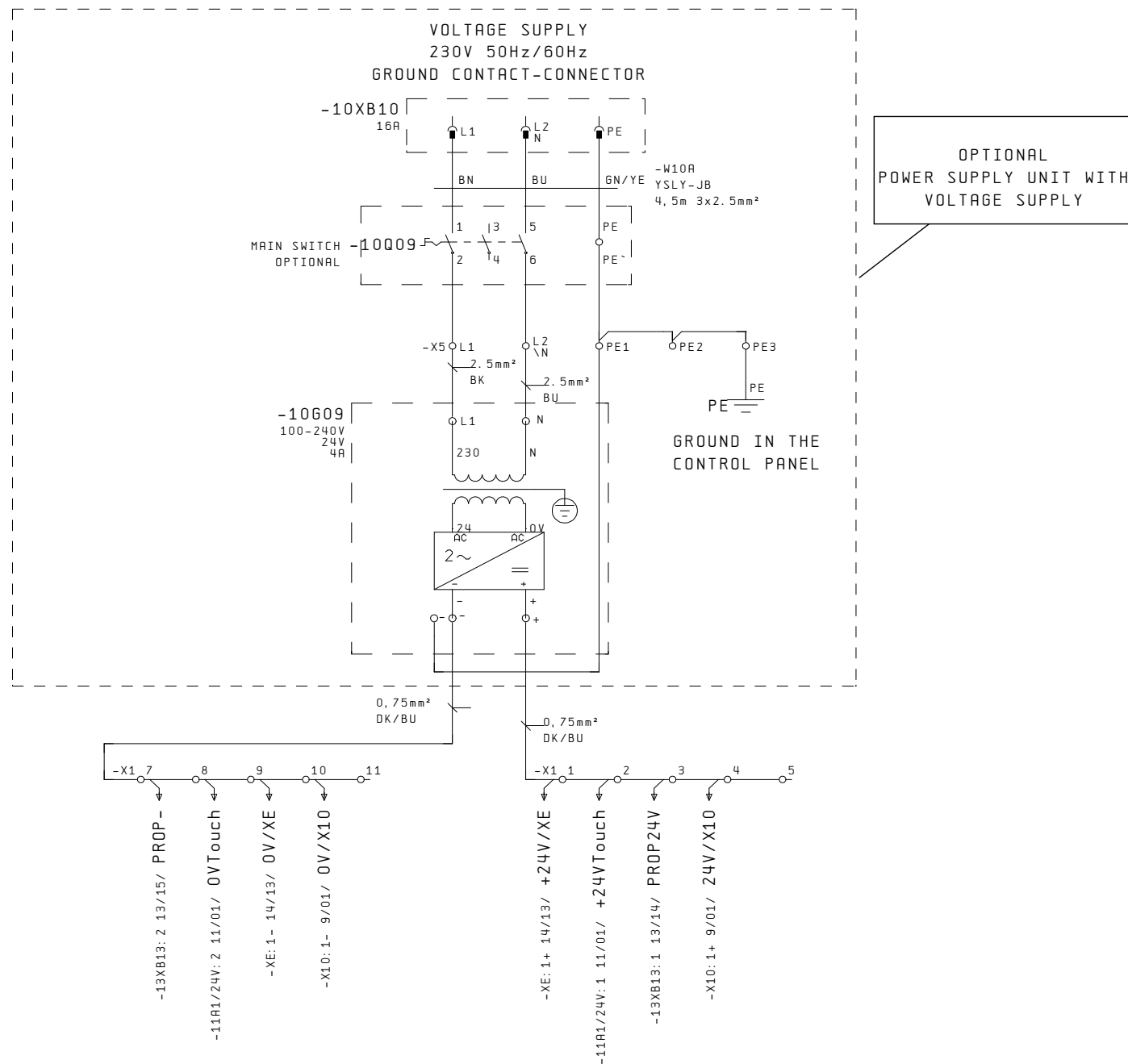
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		103	-XA	21. 01. 11	SEI	
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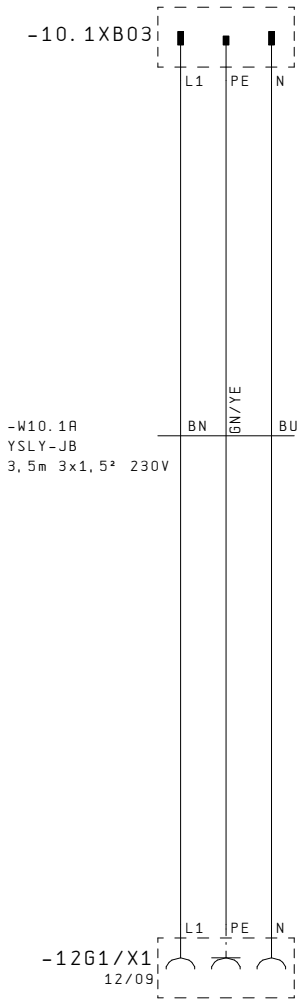
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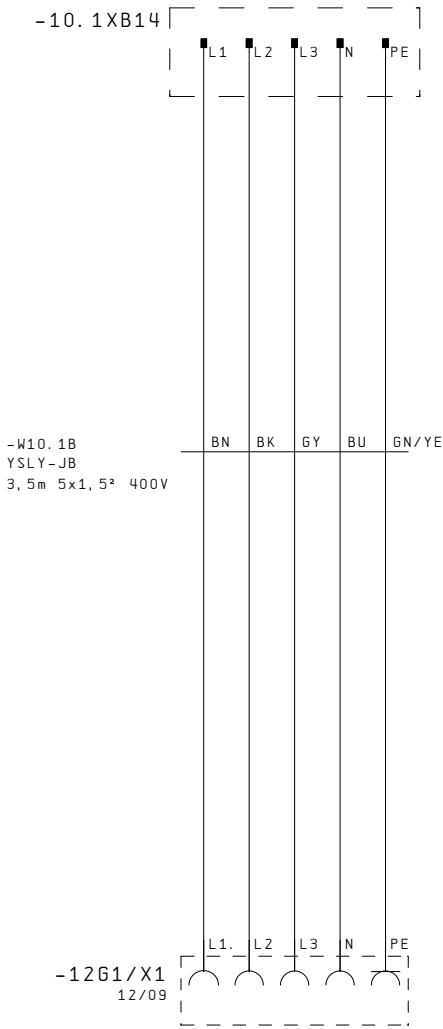
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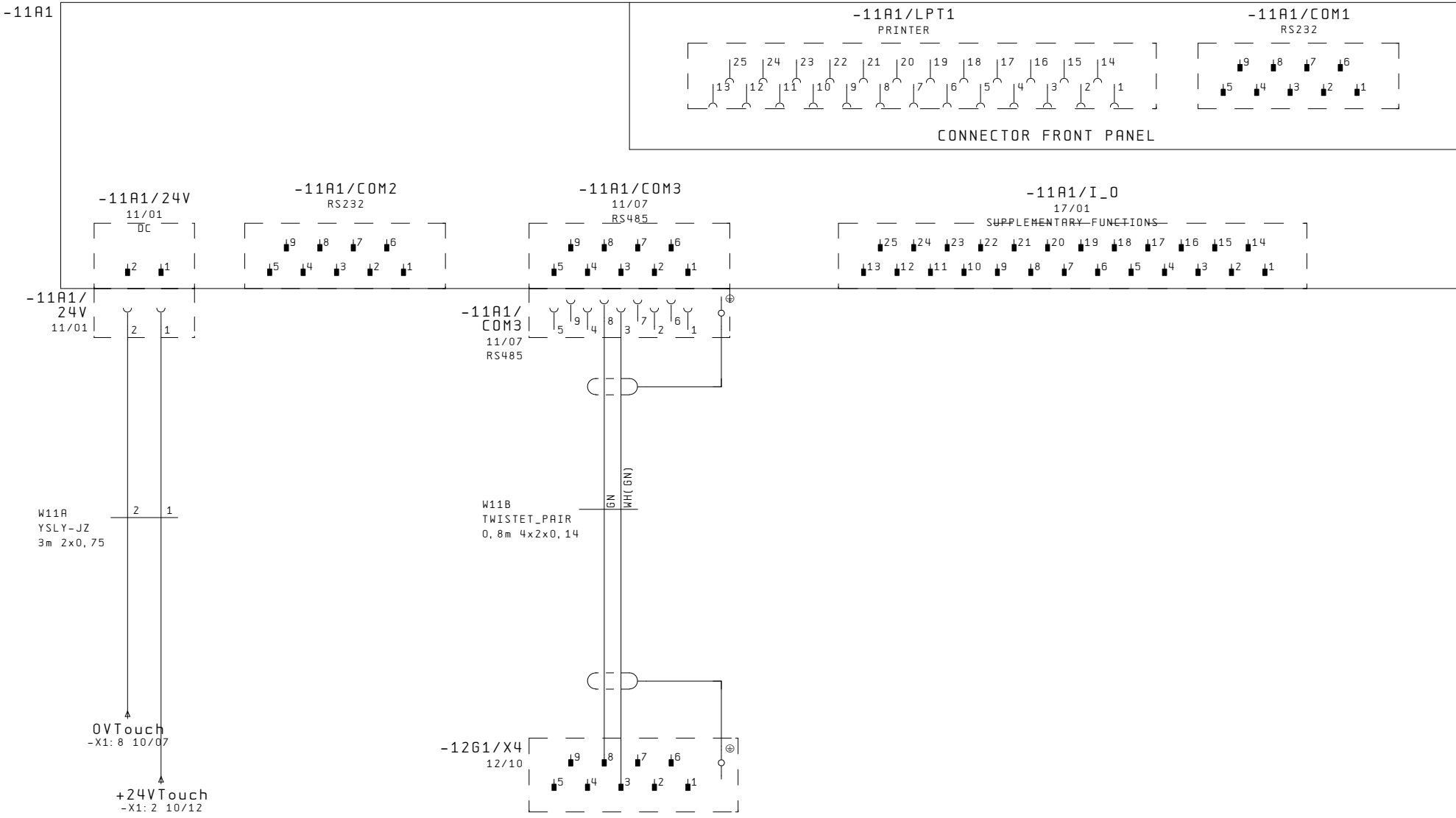


GENERATOR 1000 AND 2000

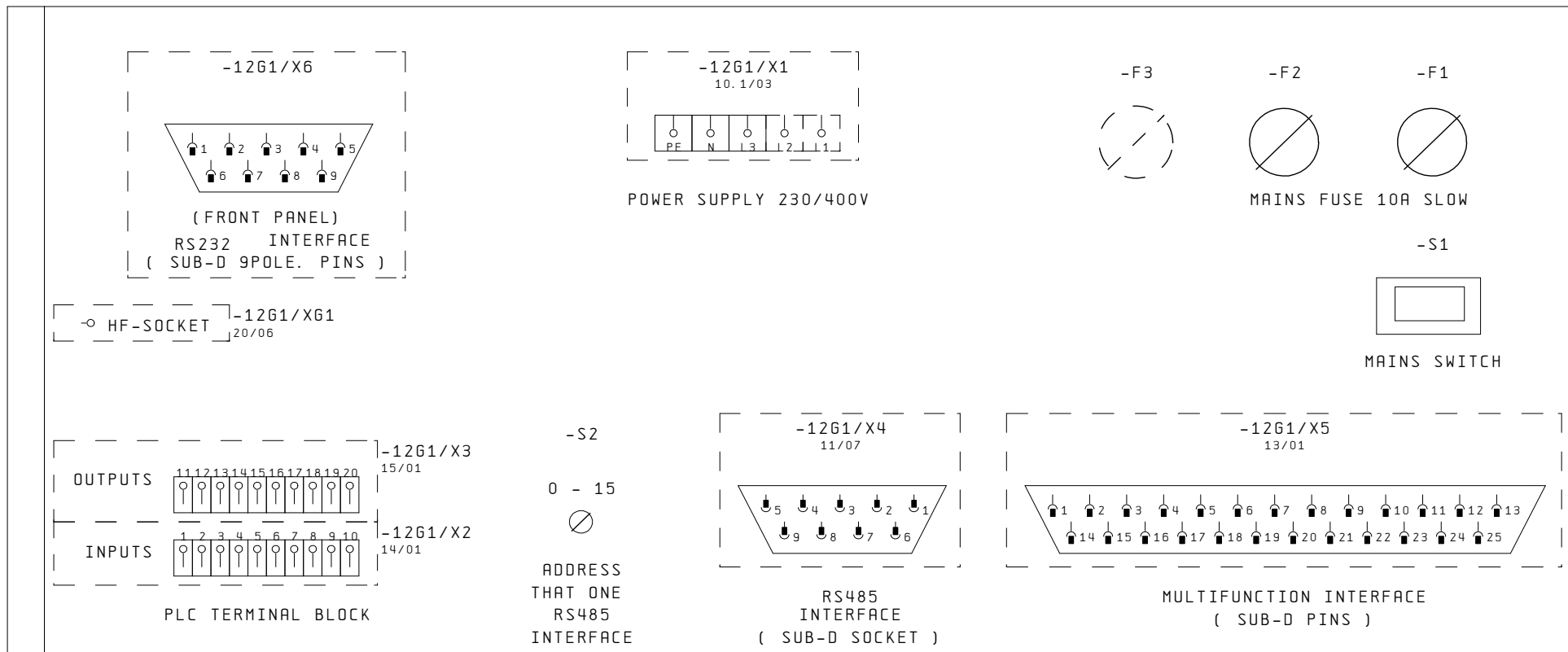


GENERATOR 4000 AND 5000





-12G1

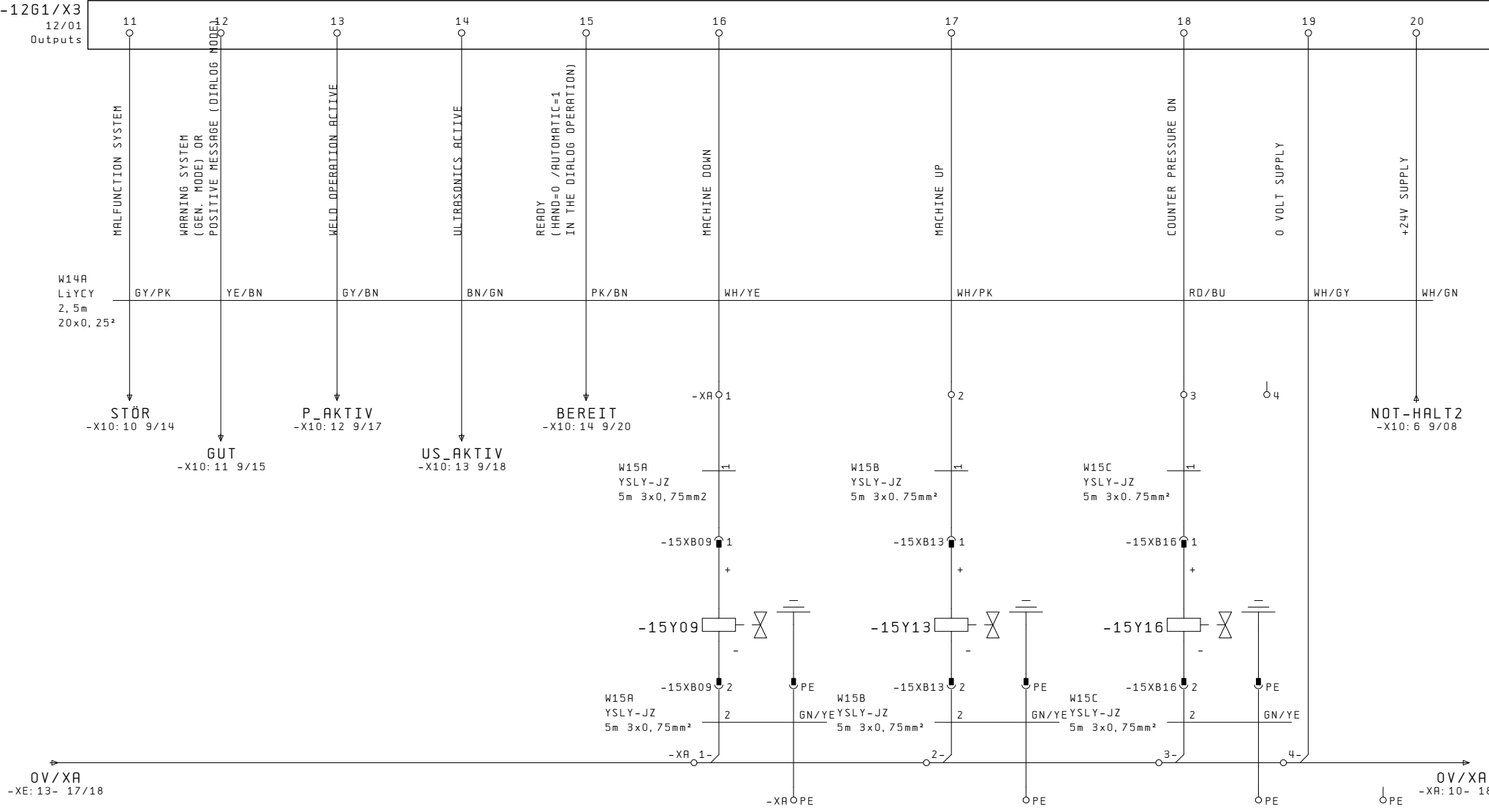


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GENERATOR
OUTPUTS

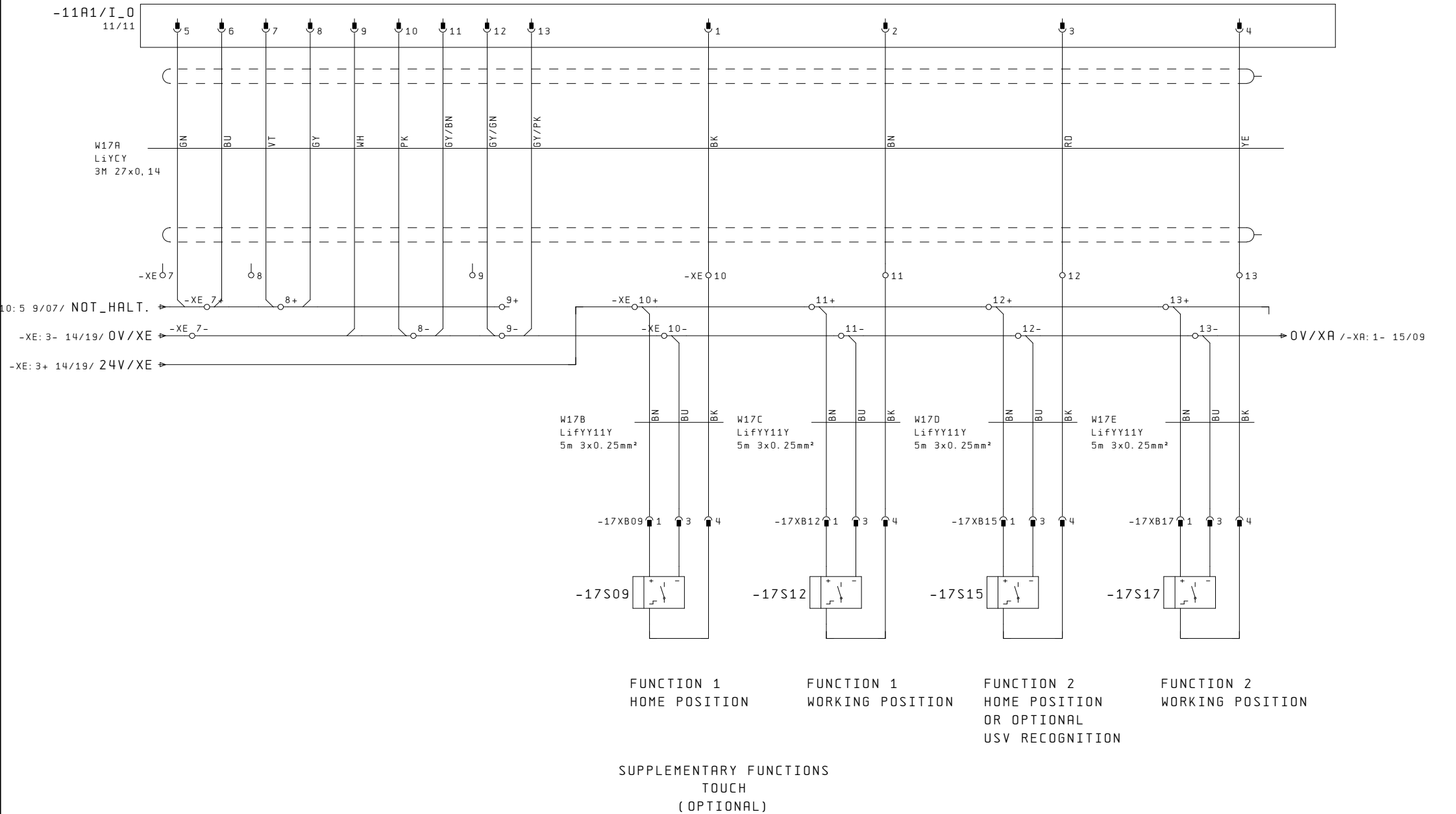
-1261/X3
12/01
Outputs

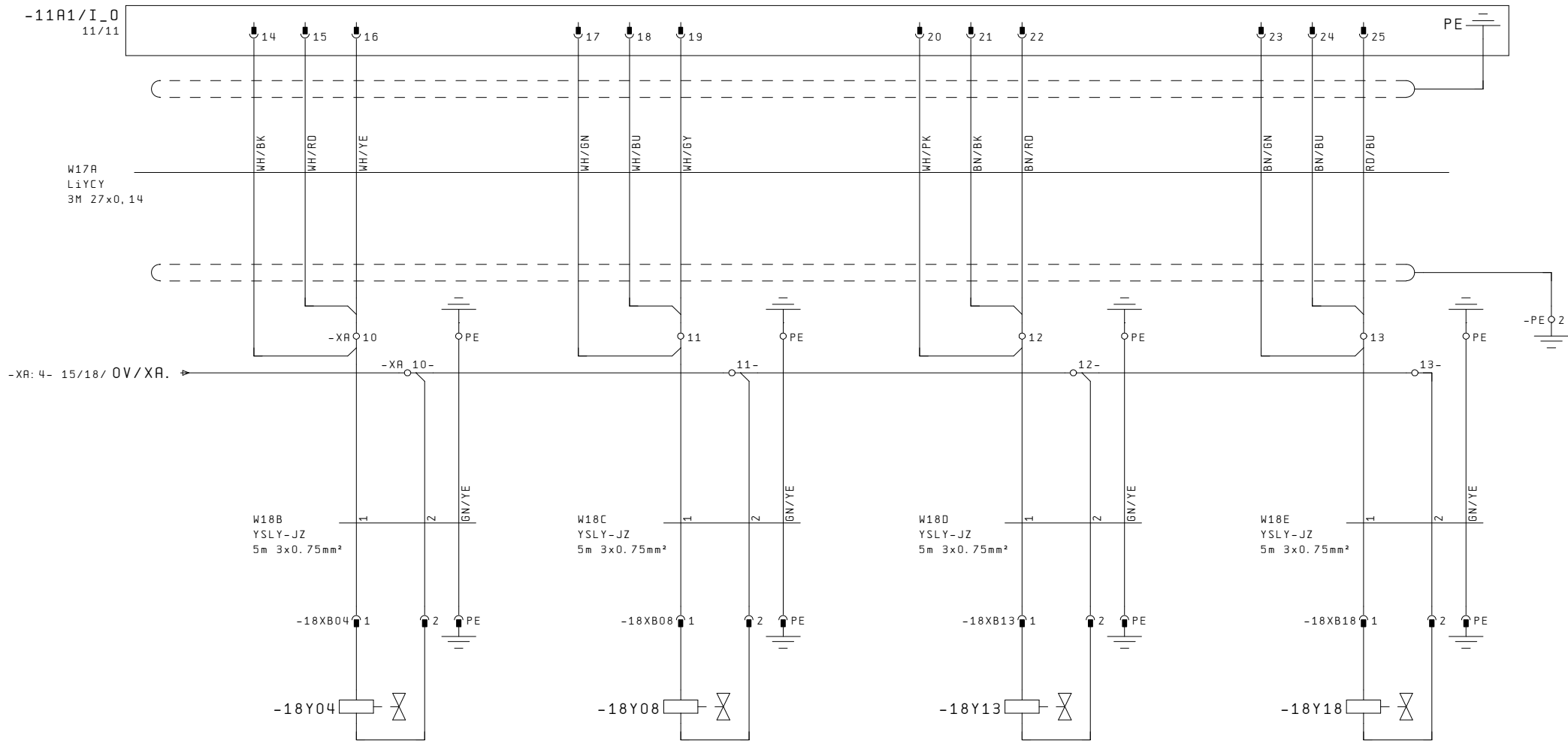


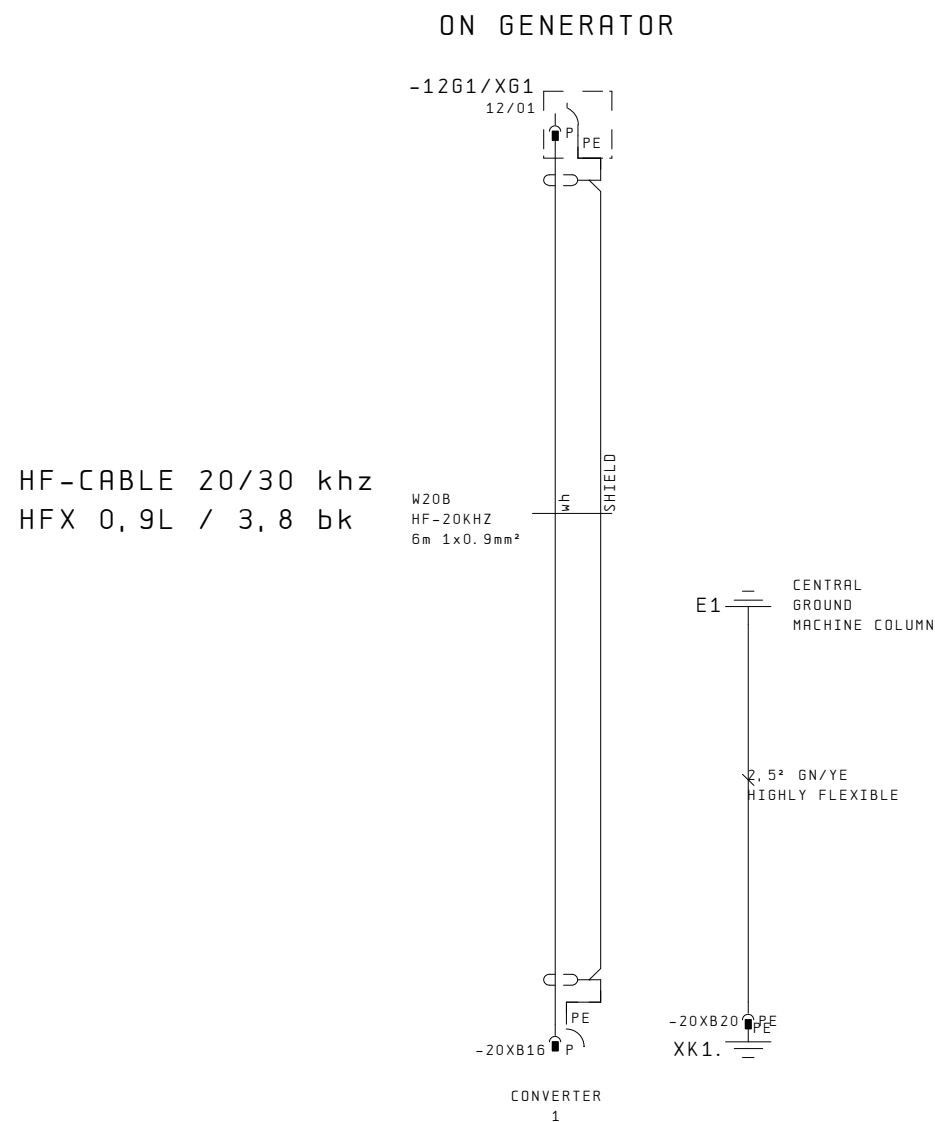
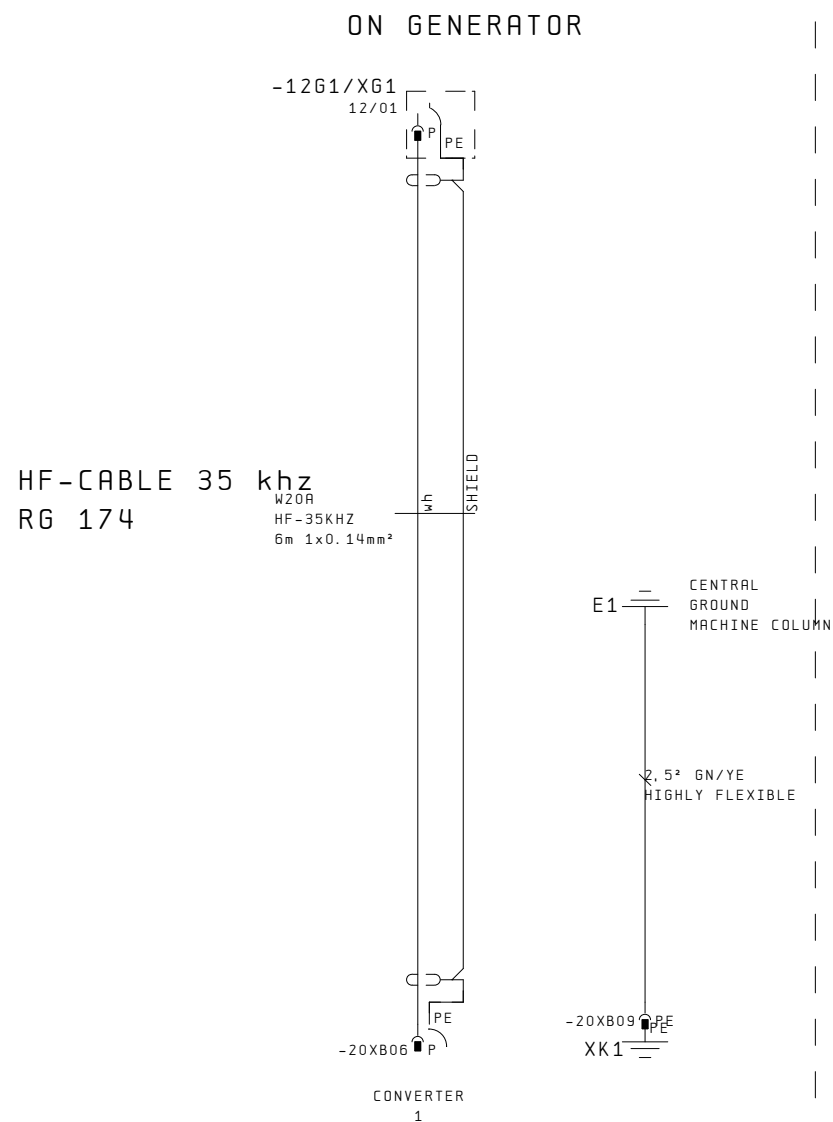
MACHINE
DOWN

MACHINE
UP
OPTIONAL

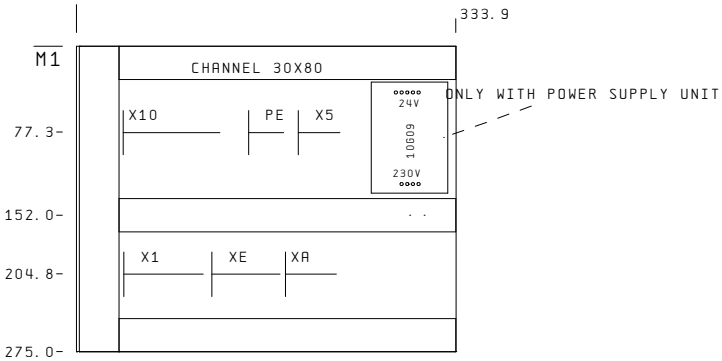
MACHINE
WEIGHT COMPENSATION
OPTIONAL

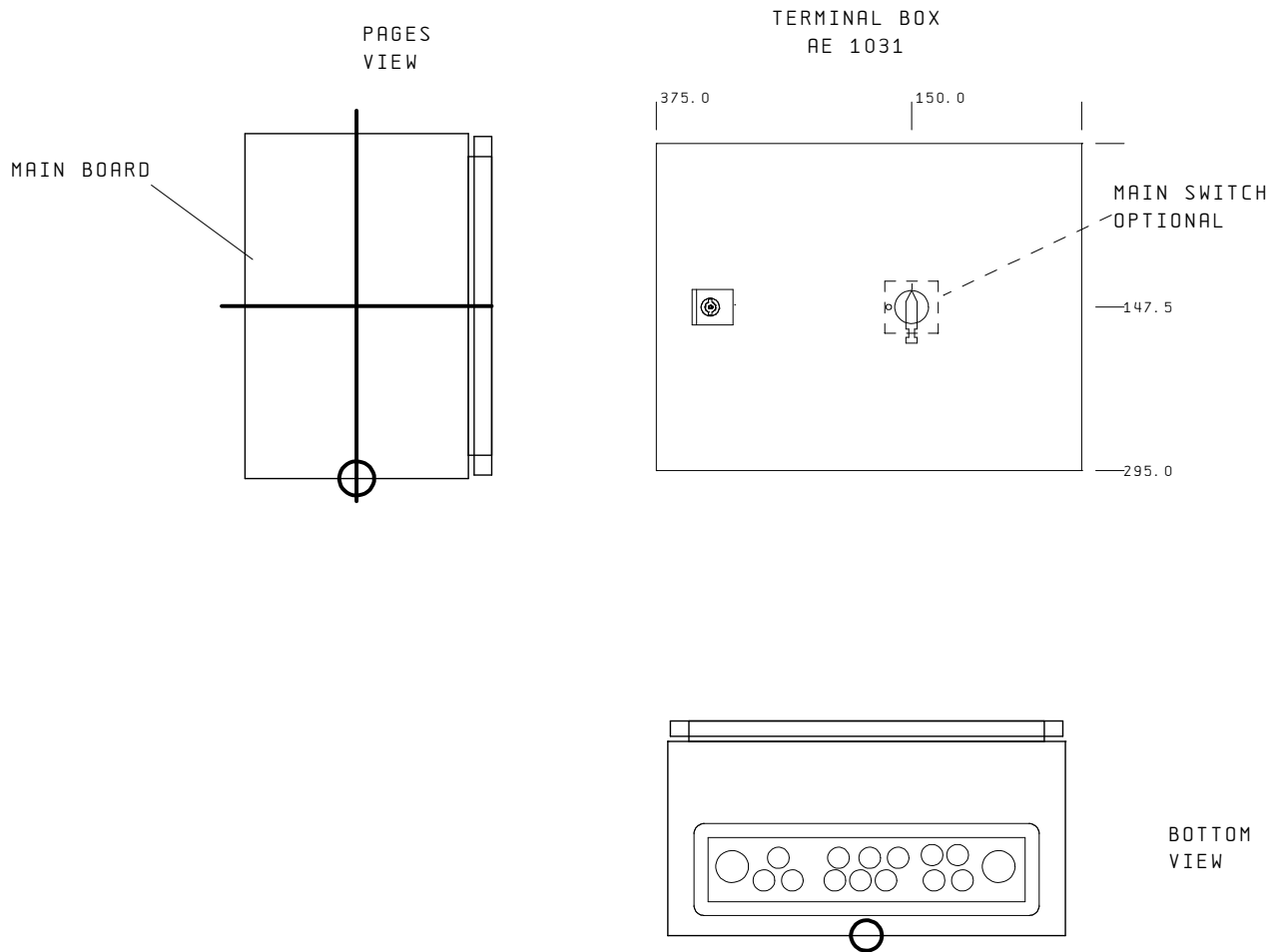


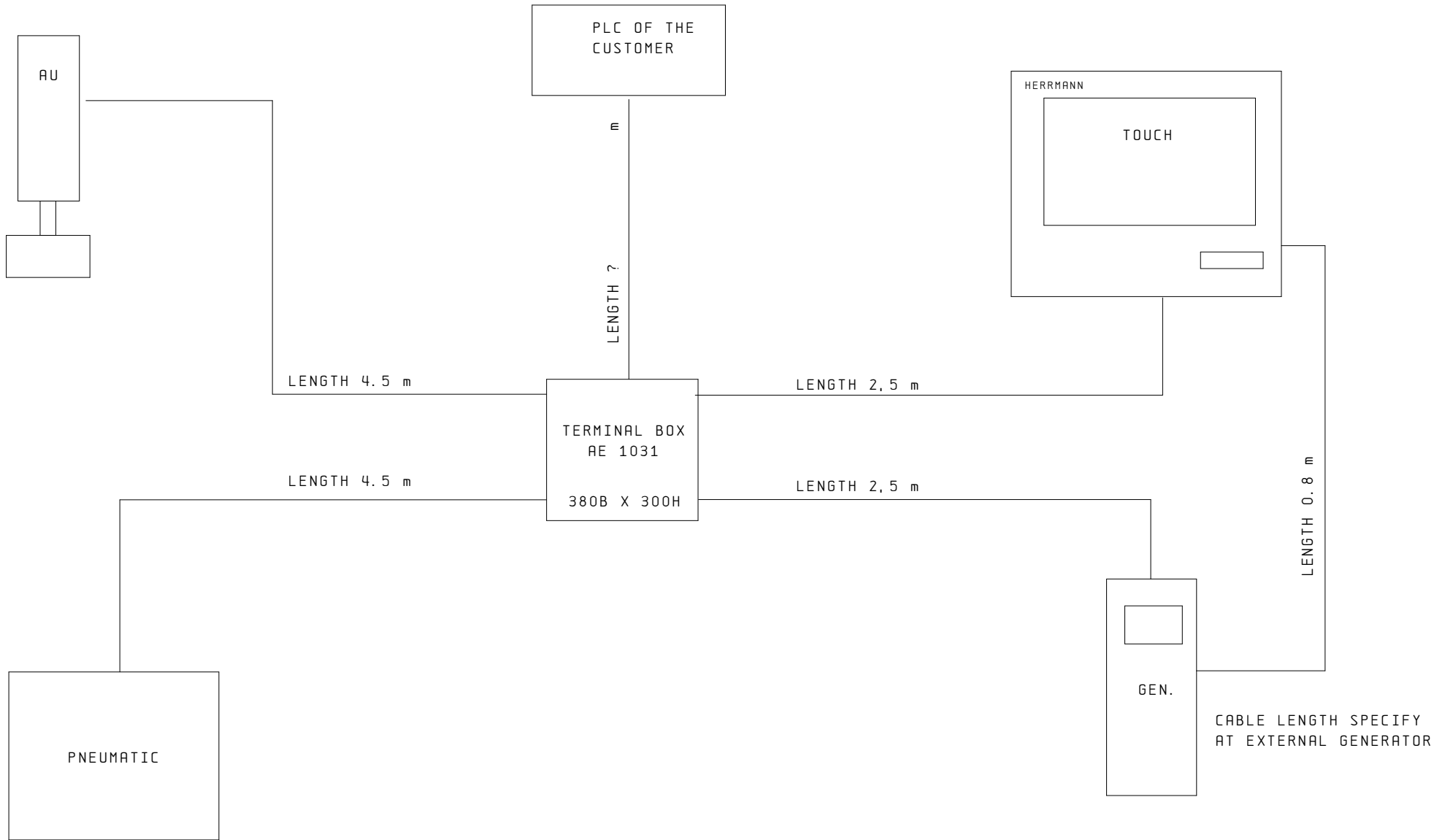




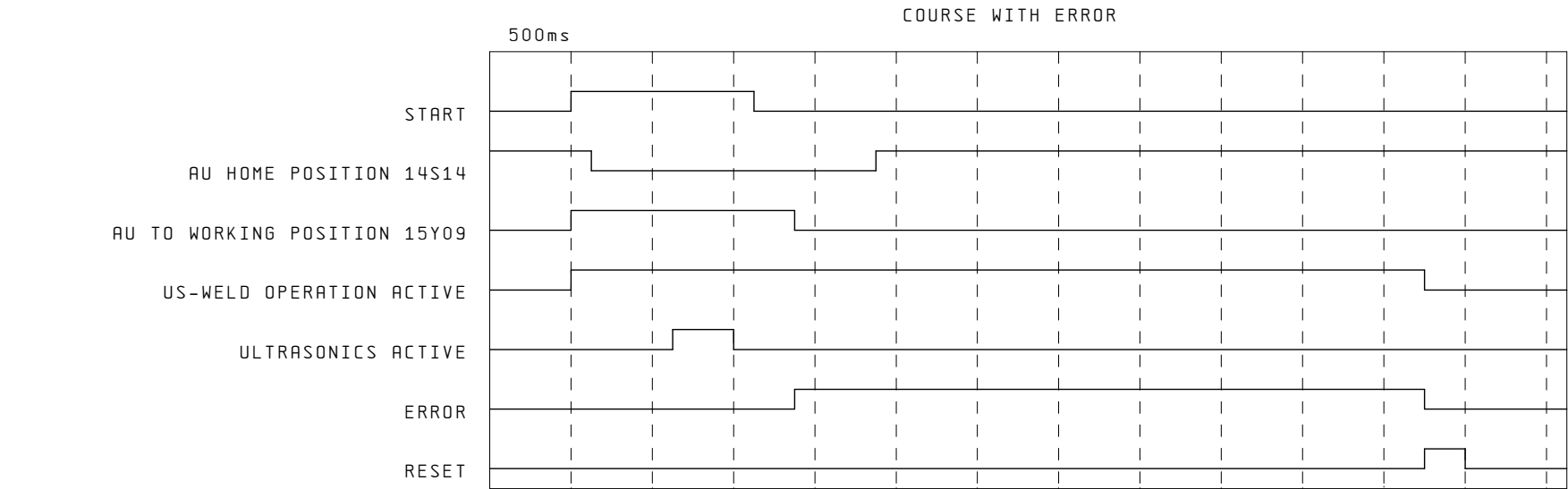
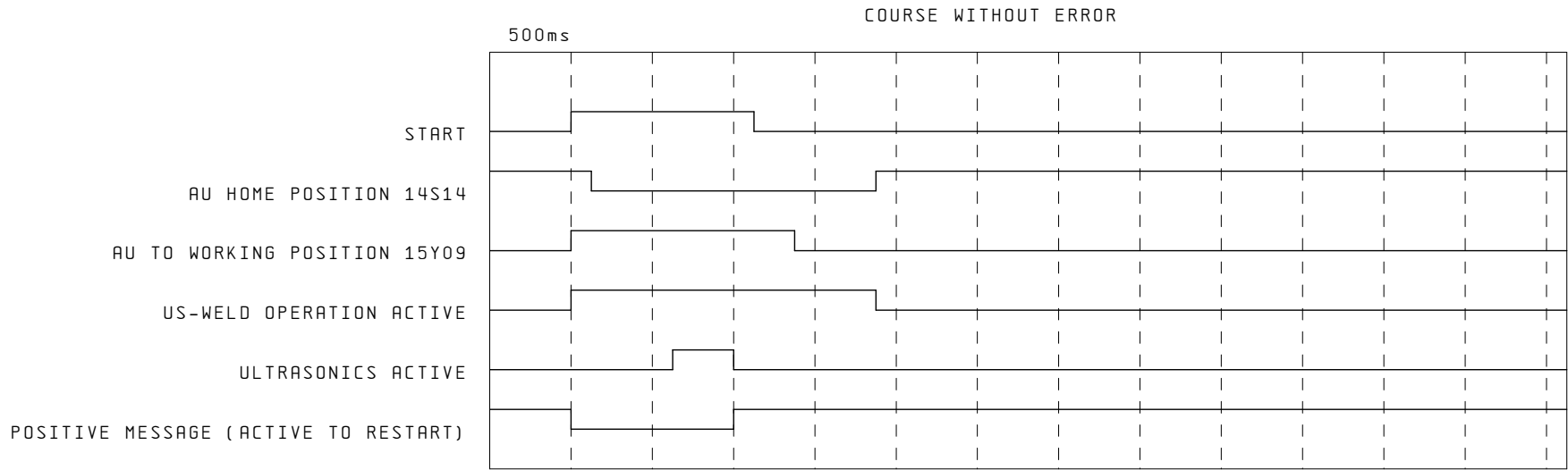
MAIN BOARD AE 1031
(380X300X210)







TIME DIAGRAM AU DIALOG TOUCH



01	01	01	01	01	01	02	02	03	04	04	05	06	06	07	07	08	09	09	10	11	11	12	12	13	14	14	15	16	16	17	17	18	19	19	20	21	21	22		
Terminal Assignment plan										10/10	10/11	10/12	10/13	10/14																										
Page / Path																																								
Cable Name					Cable type					Connection		2																												
Terminal Strip Description -X5					Connection					2																														
					Cable Assignment					INT	-10009	-10009	-10009	PE`																										
					Wire link																																			
					Bridges																																			
					Terminal number					L1 b	N L2\N b	L2\N/PE1 b	L2\N/PE2 b	PE2\N/PE3 b																										
					Connection					L1	N	L2\N/PE1	L2\N/PE2	PE2\N/PE3																										
					Cable Assignment					EXT	-10009	-10009	-10009	PE																										
Cable Name					Cable type					3x	x	-10009	x	-10009	x	-10009	x	PE																						
13										1x																														
14																																								
																									</															

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Bill of Material

Component	Page.Path	Qty.	Description	Order-Number	Manu facturers	Part Number	Inventory Number
-W10A	10.10	1	CONNECTOR GROUND CONTACT FULL RUBBER	123251	MERTEN	348	CANBAN-E
-W10A	10.10	5	COLOR CABLE	ÖLFLEX 3X2.5³	ESE-Kabel	75355	KE-09-01-01
-W10.1A	10.1.3	1	CONNECTOR GROUND CONTACT FULL RUBBER	123251	MERTEN	348	CANBAN-E
-W10.1A	10.1.3	1	CONNECTOR	PC4/3-STF-7,62	PHOENIX	8480	CANBAN-P
-W10.1A	10.1.3	4	COLOR CABLE	ÖLFLEX 3X1.5³	ESE-Kabel	75354	CANBAN-K
-W10.1B	10.1.14	1	CONNECTOR CEKON	5X16A 6H 400V	SONEPAR	349	CANBAN-E
-W10.1B	10.1.14	1	CONNECTOR	PC4/5-STF-7,62	PHOENIX	8483	CANBAN-P
-W10.1B	10.1.14	4	COLOR CABLE	ÖLFLEX 5X1.5³	ESE-Kabel	75356	CANBAN-K
W11A	11.1	3	NUMBERS CABLE	ÖLFLEX 2X0.75³	ESE-Kabel	2246	CANBAN-K
W11A	11.1	1	COUPLING BOX	2-POLIG	ELCON ELECTR.	8922	C-01-03-02
W11B	11.7	1	D-SUB PLUG-AND-SOCKET CONNECTOR SOCKET	9 POLIG	HARTING	2588	B-01-04-06
W11B	11.7	1	D-SUB PLUG-AND-SOCKET CONNECTOR PIN	9 POLIG	HARTING	2587	B-01-04-06
W11B	11.7	2	D-SUB-HOUSING	633-847 X1	PR-TRONIK	5705	E-01-05-03
W11B	11.7	1	DATA CABLE	TWISTET PAIR 4X2X0,14	ESE-Kabel	5716	CANBAN-K
W13A	13.4	1	SOCKET M8	SACC-M 8FS-4CON-M-SW	PHOENIX	75004	CANBAN-P
W13A	13.4	5	CABLE HIGHLY FLEXIBLE	LIYCY 4X0,25³	HELU	76559	KE-02-01-05
W13B	13.13	1	CONNECTOR CLUTCH	KV70M	Bürklin	4218	C-01-03-01
W13B	13.13	2	DATA CABLE	LIYCY 6X0,25³	ESE-Kabel	9148	CANBAN-K
W13C	13.4	1	D-SUB SOCKET	ITT DB-25S-K91	HARTING	2030	C-01-03-04
W13C	13.4	1	D-SUB HOUSING	633-860 X1	PR-TRONIK	5715	E-01-05-02
W13C	13.4	3	DATA CABLE	TWISTET PAIR 4X2X0,14	ESE-Kabel	5716	CANBAN-K
W14A	14.1	2	CONNECTOR	MC 1,5/10-STZF-3,81 FLAN	PHOENIX	70472	CANBAN-P
W14A	14.1	3	DATA CABLE	LIYCY 20X0,25³	ESE-Kabel	71131	CANBAN-K
W14C	14.14	1	SENSOR-ACTUATOR CABLE	SAC-3P-5.0-PUR/M8 SI FS	PHOENIX	71875	G-01-03-03
W15A	15.9	1	VALVE CABLE	SAC-3P-5.0-PUR/B-1L-S	PHOENIX	71877	G-01-02-03
W15B	15.13	1	VALVE CABLE	SAC-3P-5.0-PUR/B-1L-S	PHOENIX	71877	G-01-02-03
W15C	15.16	1	VALVE CABLE	SAC-3P-5.0-PUR/B-1L-S	PHOENIX	71877	G-01-02-03
W17A	17.1	1	D-SUB SOCKET	ITT DB-25S-K91	HARTING	2030	C-01-03-04
W17A	17.1	1	D-SUB HOUSING	D-SUB 25 POLIG	HARTING	4567	E-01-05-01
W17A	17.1	3	DATA CABLE	LIYCY 27X0,14³	ESE-Kabel	2669	KE-02-04-02
W17B	17.8	1	SENSOR-ACTUATOR CABLE	SAC-3P-5.0-PUR/M8 SI FS	PHOENIX	71875	G-01-03-03
W17C	17.11	1	SENSOR-ACTUATOR CABLE	SAC-3P-5.0-PUR/M8 SI FS	PHOENIX	71875	G-01-03-03
W17D	17.14	1	SENSOR-ACTUATOR CABLE	SAC-3P-5.0-PUR/M8 SI FS	PHOENIX	71875	G-01-03-03

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Component	Page. Path	Qty.	Description	Order-Number	Manu facturers	Part Number	Inventory Number
W17E	17. 17	1	SENSOR-ACTUATOR CABLE	SAC-3P-5.0-PUR/M8 SI FS	PHOENIX	71875	G-01-03-03
W18B	18. 3	1	VALVE CABLE	SAC-3P-5.0-PUR/B-1L-S	PHOENIX	71877	G-01-02-03
W18C	18. 8	1	VALVE CABLE	SAC-3P-5.0-PUR/B-1L-S	PHOENIX	71877	G-01-02-03
W18D	18. 13	1	VALVE CABLE	SAC-3P-5.0-PUR/B-1L-S	PHOENIX	71877	G-01-02-03
W18E	18. 18	1	VALVE CABLE	SAC-3P-5.0-PUR/B-1L-S	PHOENIX	71877	G-01-02-03
W20A	20. 6	1	COAXIAL CABLE WITH CONNECTOR		HERRMANN	81965	SG-02-01-01
W20B	20. 17	1	CONNECTOR	FFA.1S.405.CTAC62	LEMO	8315	C-01-02-04
W20B	20. 17	1	SOCKET	FFA.1S.405.CTLC62	LEMO	6244	C-01-02-04
W20B	20. 17	6	COAXIAL CABLE	HFX0,9L/3,8SW 20KHZ	ESE-Kabel	106	CANBAN-K
W21A	21. 8	3	DATA CABLE	LIYCY 6X0,25³	ESE-Kabel	9148	CANBAN-K
-X1	10. 06	9	TENSION SPRING CLAMP	STTB 2,5	PHOENIX	70941	CANBAN-P
-X1	10. 06	1	TERMINAL STRIPS MARKING	TEST	PHOENIX	3688	CANBAN-P
-X1	10. 06	1	FINAL OWNER	CLIPFIX 35	PHOENIX	72730	CANBAN-P
-X1	10. 06	2	TENSION SPRING CLAMP	STI 2,5-PE	PHOENIX	70949	CANBAN-P
-X5	10. 10	2	TENSION SPRING CLAMP	STI 2,5	PHOENIX	70948	CANBAN-P
-X5	10. 10	1	FINAL OWNER	CLIPFIX 35	PHOENIX	72730	CANBAN-P
-X5	10. 10	1	CAP	D-STI 2,5	PHOENIX	70951	CANBAN-P
-X5	10. 10	1	TERMINAL STRIPS MARKING	TEST	PHOENIX	3688	CANBAN-P
-X5	10. 10	3	TENSION SPRING CLAMP	STI 2,5-PE	PHOENIX	70949	CANBAN-P
-X10	9. 01	14	TENSION SPRING CLAMP	ZDIK 1,5	PHOENIX	70968	CANBAN-P
-X10	9. 01	1	FINAL OWNER	CLIPFIX 35	PHOENIX	72730	CANBAN-P
-X10	9. 01	1	TERMINAL STRIPS MARKING	TEST	PHOENIX	3688	CANBAN-P
-X10	9. 01	0.10	LINK PLUG RED	FBSTB 80-ZDIK RD	PHOENIX	70969	CANBAN-P
-X10	9. 01	0.20	LINK PLUG BLUE	FBSTB 80-ZDIK BU	PHOENIX	70970	CANBAN-P
-X10	9. 01	0.10	LINK PLUG GROUND	FBSTB 80-ZDIK GNYE	PHOENIX	70971	CANBAN-P
-X10	9. 01	1	CAP	D-ZDIK 1,5	PHOENIX	71434	CANBAN-P
-XA	15. 11	1	CAP	D-ZDIK 1,5	PHOENIX	71434	CANBAN-P
-XA	15. 11	8	TENSION SPRING CLAMP	ZDIK 1,5	PHOENIX	70968	CANBAN-P
-XA	15. 11	1	FINAL OWNER	CLIPFIX 35	PHOENIX	72730	CANBAN-P
-XA	15. 11	1	TERMINAL STRIPS MARKING	TEST	PHOENIX	3688	CANBAN-P
-XA	15. 11	0.20	LINK PLUG BLUE	FBSTB 80-ZDIK BU	PHOENIX	70970	CANBAN-P
-XA	15. 11	0.20	LINK PLUG GROUND	FBSTB 80-ZDIK GNYE	PHOENIX	70971	CANBAN-P
-XE	14. 13	10	TENSION SPRING CLAMP	ZDIK 1,5	PHOENIX	70968	CANBAN-P

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Component	Page.Path	Qty.	Description	Order-Number	Manu facturers	Part Number	Inventory Number
-XE	14.13	2	FINAL OWNER	CLIPFIX 35	PHOENIX	72730	CANBAN-P
-XE	14.13	2	TERMINAL STRIPS MARKING	TEST	PHOENIX	3688	CANBAN-P
-XE	14.13	0.30	LINK PLUG RED	FBSTB 80-ZDIK RD	PHOENIX	70969	CANBAN-P
-XE	14.13	0.40	LINK PLUG BLUE	FBSTB 80-ZDIK BU	PHOENIX	70970	CANBAN-P
-XE	14.13	0.30	LINK PLUG GROUND	FBSTB 80-ZDIK GNYE	PHOENIX	70971	CANBAN-P
-XE	14.13	2	CAP	D-ZDIK 1,5	PHOENIX	71434	CANBAN-P
-XWA1	21.08	1	SPOUT CASE 3 POLE (6)	HAN 3A	HARTING	77044	F-01-04-07
-XWA1	21.08	1	Connector-Socket insert 12-pole.	CQF 12	ILME	80522	CANBAN-E
-XWA1	21.08	4	Crimping socket	0,14-0,37 VERGOLDET	HARTING	8267	CANBAN-E
-XWA1	21.08	1	SOCKET BOX 3 POLE (6)	HAN 3A	HARTING	77045	CANBAN-E
-XWA1	21.08	1	Connector-Pin insert 12-pole.	CQM 12	ILME	80521	CANBAN-E
-XWA1	21.08	4	Crimping pin	0,14-0,37 VERGOLDET	HARTING	8266	CANBAN-E
-10G09	10.09	1	POWER SUPPLY UNIT 24V/4 A	100-240V 24V/4 A	PHOENIX	73998	CANBAN-P
-10G09	10.09	0	CABLE GLAND	M16X1.5 IP68	PFLITSCH	6284	CANBAN-E
-10G09	10.09	1	CONNECTOR GROUND CONTACT FULL RUBBER	123251	MERTEN	348	CANBAN-E
-10G09	10.09	0	SECHSKANTMUTTER M16		PFLITSCH	70582	CANBAN-E
-10G09	10.09	5	COLOR CABLE	ÖLFLEX 3X2.5³	ESE-Kabel	75355	KE-09-01-01
-10Q09	10.10	1	MAIN SWITCH	K620 T203/03 EA	KRAUS&NAIMER	2557	E-01-03-05
-11A1	11.01	1	Control unit DIALOG touch 12"	75087	HERRMANN	75087	E-07-03-02
-12G1/X1	12.09	1	CONNECTOR	PC4/5-STF-7,62	PHOENIX	8483	CANBAN-P
-12G1/X1	12.09	1	CONNECTOR	PC4/3-STF-7,62	PHOENIX	8480	CANBAN-P
-13R06	13.06	1	SEEING PART LIST M-CONSTRUCTION			XX0002XX	
-13Y13	13.13	1	SEEING PART LIST PNEUMATIC			XX0001XX	
14S14	14.15	1	HOLDER	BMF 305-HW-27	BALLUFF	6754	CANBAN-S
14S14	14.15	1	MAGNETIC FIELD SENSOR	BMF305-PS-C-S49-00.2	BALLUFF	9827	CANBAN-S
-15Y09	15.10	1	SEEING PART LIST PNEUMATIC			XX0001XX	
-15Y13	15.13	1	SEEING PART LIST PNEUMATIC			XX0001XX	
-15Y16	15.17	1	SEEING PART LIST PNEUMATIC			XX0001XX	
-17S09	17.09	1	MAGNETIC FIELD SENSOR	BMF305-PS-C-S49-00.2	BALLUFF	9827	CANBAN-S
-17S12	17.12	1	MAGNETIC FIELD SENSOR	BMF305-PS-C-S49-00.2	BALLUFF	9827	CANBAN-S
-17S15	17.15	1	MAGNETIC FIELD SENSOR	BMF305-PS-C-S49-00.2	BALLUFF	9827	CANBAN-S
-17S17	17.18	1	MAGNETIC FIELD SENSOR	BMF305-PS-C-S49-00.2	BALLUFF	9827	CANBAN-S
-18Y04	18.03	1	SEEING PART LIST PNEUMATIC			XX0001XX	

Bill of Material

[illegible]

Bill of Material - Summary

Total Quantity	Designation	Order-Number	Manu facturers	Part Number	Inventory Number	
1	MAIN SWITCH	K620 T203/03 EA	KRAUS&NAIMER	2557	E-01-03-05	
1	SOCKET BOX 3 POLE (6)	HAN 3A	HARTING	77045	CANBAN-E	
4	Crimping pin	0,14-0,37 VERGOLDET	HARTING	8266	CANBAN-E	
4	Crimping socket	0,14-0,37 VERGOLDET	HARTING	8267	CANBAN-E	
1	HOLDER	BMF 305-HW-27	BALLUFF	6754	CANBAN-S	
5	MAGNETIC FIELD SENSOR	BMF305-PS-C-S49-00.2	BALLUFF	9827	CANBAN-S	
3	DATA CABLE	LIYCY 6X0,25³	ESE-Kabel	9148	CANBAN-K	
1	SPOUT CASE 3 POLE (6)	HAN 3A	HARTING	77044	F-01-04-07	
1	INTERFACE-CABLE		HERRMANN	010270	E-21-14-01	
1	MACHINES SUPPLY LEAD	230V 4.5M	HERRMANN	061155	E-01-01-01	
1	CABLE HARNES WITH POWER SUPPLY UNIT 4A 24V		HERRMANN	061213	EB-01-01-01	
1	LINEAR ENCODER-CABLE HIGHLY FLEXIBLE 5m		HERRMANN	3810	E-00-02-07	
1	PROP VALVE-CABLE	HS_DC XB5 2,2M	HERRMANN	4282	E-01-01-07	
1	GENERATOR INLET	400V D.C. 3,5M	HERRMANN	70574	E-01-01-01	
1	GENERATOR SUPPLY LEAD	230V D.C. 3,5M	HERRMANN	70580	E-01-01-01	
1	CABLE-VOLTAGE SUPPLY	24V DDC VE 3M	HERRMANN	71176	E-00-01-03	
1	ANALOG-CABLE	DDC VE, 3M	HERRMANN	71177	E-00-01-04	
1	Control unit DIALOG touch 12"	75087	HERRMANN	75087	E-07-03-02	
1	COAXIAL CABLE	20 KHZ NEU-DDC 6M	HERRMANN	7682	E-06-03-08	
1	COAXIAL CABLE WITH CONNECTOR		HERRMANN	81965	SG-02-01-01	
1	INTERFACE-CABLE	RS 485 0,8M	HERRMANN	9212	E-00-01-06	
1	ON/DATA OUTPUT CABLE	DDC VE, 3M	HERRMANN	9950	E-21-13-01	
8	SEEING PART LIST PNEUMATIC			XX0001XX		
1	SEEING PART LIST M-CONSTRUCTION			XX0002XX		
1	Connector-Pin insert 12-pole.	CQM 12	ILME	80521	CANBAN-E	
1	Connector-Socket insert 12-pole.	CQF 12	ILME	80522	CANBAN-E	
6	TERMINAL STRIPS MARKING	TEST	PHOENIX	3688	CANBAN-P	
9	TENSION SPRING CLAMP	STB 2,5	PHOENIX	70941	CANBAN-P	
2	TENSION SPRING CLAMP	STI 2,5	PHOENIX	70948	CANBAN-P	
5	TENSION SPRING CLAMP	STI 2,5-PE	PHOENIX	70949	CANBAN-P	
1	CAP	D-STI 2,5	PHOENIX	70951	CANBAN-P	
32	TENSION SPRING CLAMP	ZDIK 1,5	PHOENIX	70968	CANBAN-P	
0.40	LINK PLUG RED	FBSTB 80-ZDIK RD	PHOENIX	70969	CANBAN-P	

Bill of Material - Summary

[illegible]