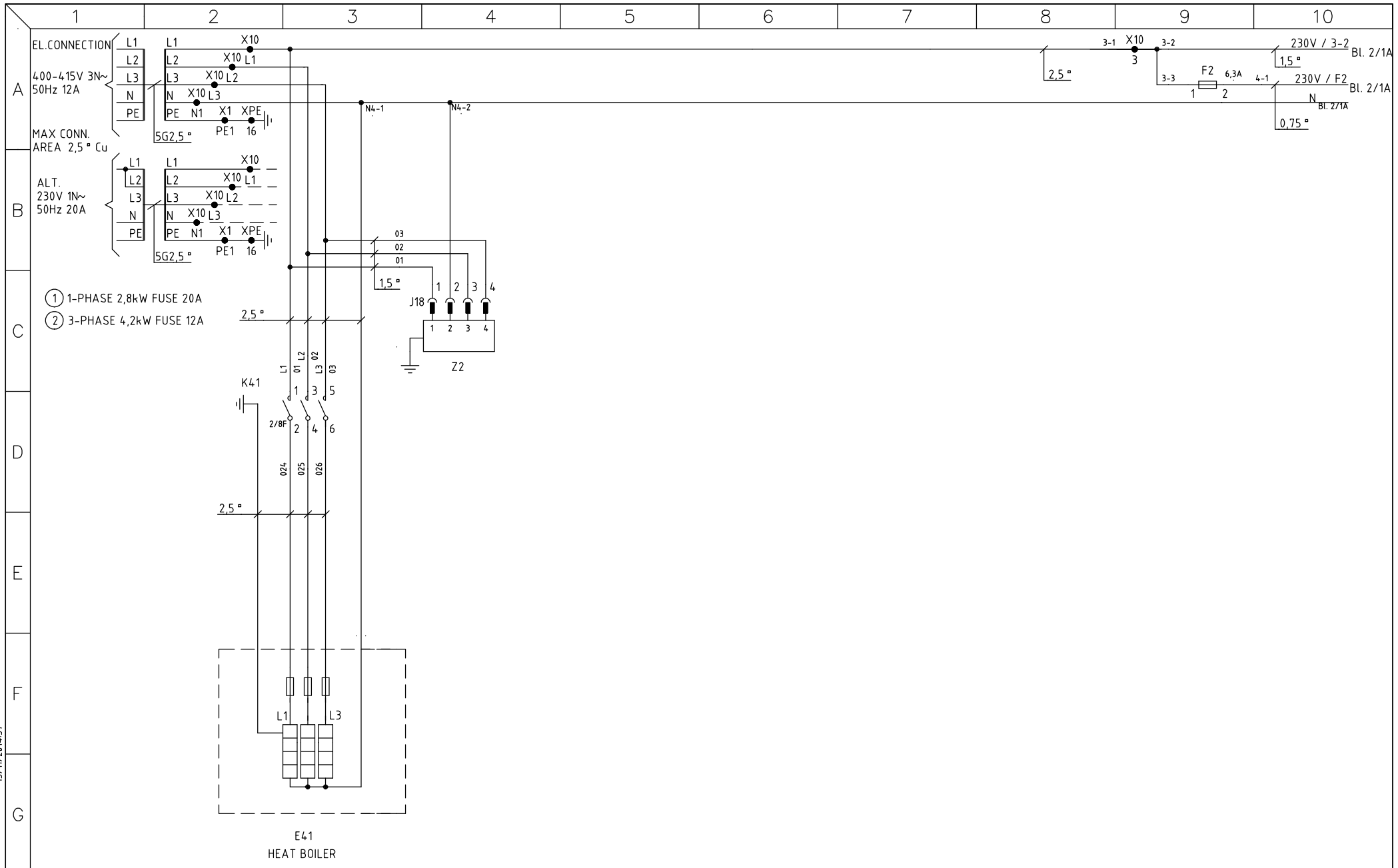


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Experiment-01.dwg



- ① 1-PHASE 2,8kW FUSE 20A
- ② 3-PHASE 4,2kW FUSE 12A

- ① 230V 3,6kW 15,6A
- ② 400-415V 5,4kW 7,8A

--- = EXTRA EQUIPMENT

<b>Wexiödisk</b> <sup>SM</sup>	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD4-DEC		A,G				131121	
	400-415V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. MAIN CIRCUIT DIAGRAM				AA	AA	DS	1	
				DRAWING NO		REV.		CONT.
				E56874		EXP2		2

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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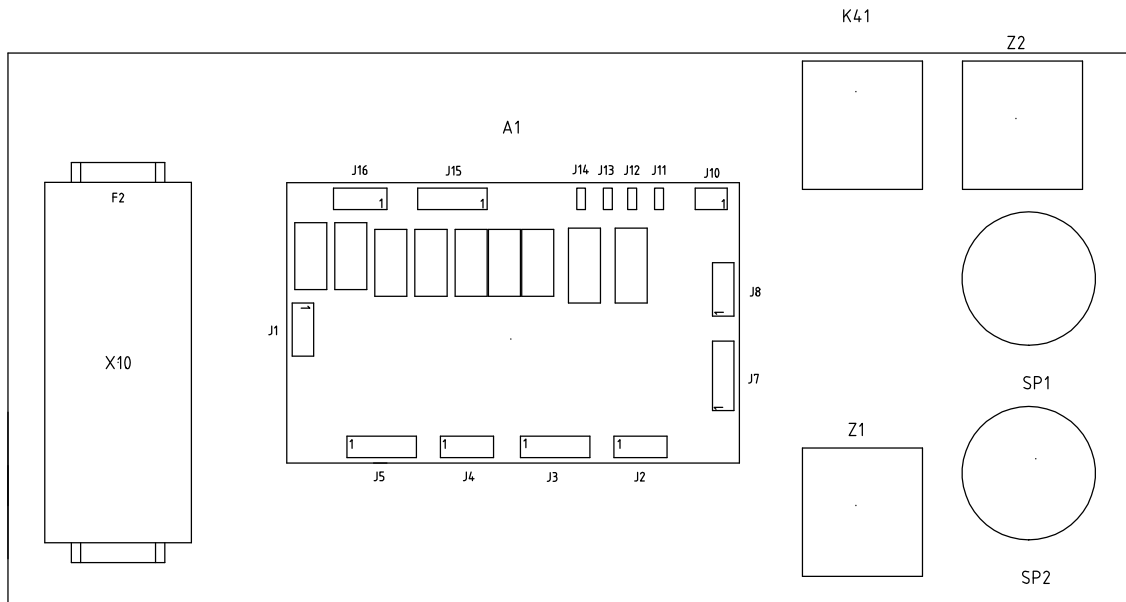
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Experiment-03.dwg 13/11/15 12:06

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD4-DEC A,G						131121	
	400-415V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN DRAWN		APPR. SHEET	
EL. CONTROL CIRCUIT DIAGR				AA		DS 3		
		DRAWING NO		REV.		CONT.		
		E56874		EXP2		-		

## EL. COMPONENT LIST

TYP: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV.

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	-	KERAMISK 6,3AT	52029934		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	1	SOCKET	RAST5	INARCA	1-POL	0011341101	LEV.ART.NR	
	1	REC.BLOC	RAST5	-	3-POL	0854106700	LEV.ART.NR	
J10	1	SOCKET	RAST5	INARCA	1-POL	0011341101	LEV.ART.NR	
	1	REC.BLOC	RAST5	-	4-POL	0854152700	LEV.ART.NR	
J10:1	1	PIN	AMP	VAL-U-LOK	-	61072206	-	
	1	REC.BLOC	AMP	VAL-U-LOK	3-POL	61072202	-	
J11	1	KABELSKO 1,5	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	KABELSKO 1,5	ELPRESS	FL- ISOL	-	50871528	-	
J12:1	1	PIN	AMP	VAL-U-LOK	-	61072206	-	
	1	REC.BLOC	AMP	VAL-U-LOK	6-POL	61072205	-	
J13	1	KABELSKO 1,5	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	KABELSKO 1,5	ELPRESS	FL- ISOL	-	50871528	-	
J15	1	SOCKET	RAST5	INARCA	1-POL	0011341101	LEV.ART.NR	
	1	REC.BLOC	RAST5	-	7-POL	0854157700	LEV.ART.NR	
J15:1	1	SOCKET	AMP	-	-	61026893	-	
	1	REC.BLOC	UMNL	-	3-POL	716.0520	-	
J16	1	SOCKET	RAST5	INARCA	1-POL	0011341101	LEV.ART.NR	

## EL. COMPONENT LIST

TYP: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV.

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
	1	REC.BLOC	RAST5	-	4-POL	0854152700	LEV.ART.NR	
J17	1	SOCKET	AMP	HYLSA TILL 61081512	-	61055751	-	
	1	REC.BLOC	INARCA	-	4-POL	C-6450388700	LEV.ART.NR	
J2	1	SOCKET	RAST5	INARCA	1-POL	0011341101	LEV.ART.NR	
	1	REC.BLOC	RAST5	-	5-POL	0854094700	LEV.ART.NR	
J3	1	SOCKET	RAST5	INARCA	1-POL	0011341101	LEV.ART.NR	
	1	REC.BLOC	RAST5	-	6-POL.	0854156700	LEV.ART.NR	
J4	1	SOCKET	RAST5	INARCA	1-POL	0011341101	LEV.ART.NR	
	1	REC.BLOC	RAST5	-	5-POL	0854094700	LEV.ART.NR	
J4:2	1	SOCKET	AMP	-	-	61026893	-	
	1	REC.BLOC	AMP	-	2-POL	61080699	-	
J8	1	SOCKET	AMP	-	-	61026893	-	
	1	REC.BLOC	UMNL	-	3-POL	716.0520	-	
J9	1	SOCKET	AMP	-	-	61026893	-	
	1	REC.BLOC	UMNL	-	3-POL	716.0520	-	
K41	1	CONTACTOR	TELEMECANIQUE	LC1K0910M7 230V	20/20A 40/60°C	63723010	-	
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GULD	733.0103?	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GULD	733.0103?	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309	-	
Z1	1	FILTER	PROCOND ELETTRONICA	411141410	230V 1N 50Hz	60702000	-	
Z2	1	FILTER	PROCOND ELETTRONICA	411135901D	250VAC 50-60Hz		-	

# EL. COMPONENT LIST

TYP: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV.

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN 3-LED	800V 28A MAX 4MM	62231241		
X10	6	CONN.BLOCK	PHOENIX	ST2,5-TWIN 3-LED BLUE	800V 28A MAX 4MM	62231254		
XPE	1	CONN.BLOCK	PHOENIX	ST2,5-TWIN 3-LED PE G/G	800V 28A MAX 4MM	62231267		
B1	1	GRÄNSLÄGE	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	SHIBAURA		-	610.0106	-	
B41	1	TEMP. SENSOR	SHIBAURA		-	610.0106	-	
E21	1	ELECTRIC HEATER	BACKER	-	1800W / 230V	604.1805	-	
E41:1	1	ELECTRICAL CARTF	BACKER	-	5400W / 230/400V	604.1805	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 4A IP20	805.2670	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660	OPTION	
M15	1	PUMP MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	?	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310	OPTION	
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
SP3	1	LEVEL SWITCH	HUGO TILLQUIST AB	POO6P 140MM	40W/1A/50V	733,0514	67182401	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP. AB	R157	230V 50-60Hz	?	OPTION	









## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. EXP3

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	-	KERAMISK 6,3AT	52029934	-	
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	1	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	BLOCK	RAST5	-	3-POL	0854106700	-	
J10	1	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	BLOCK	RAST5	-	4-POL	0854152700	-	
J10:1	1	BLOCK	AMP	VAL-U-LOK	-	61072206	-	
	1	BLOCK	AMP	VAL-U-LOK	3-POL	61072202	-	
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12:1	1	BLOCK	AMP	VAL-U-LOK	-	61072206	-	
	1	BLOCK	AMP	VAL-U-LOK	6-POL	61072205	-	
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	1	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	BLOCK	RAST5	-	7-POL	0854157700	-	
J16	1	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	BLOCK	RAST5	-	4-POL	0854152700	-	
J17	1	SOCKET	AMP	HYLSA TILL 61081512	-	61055751	-	
	1	BLOCK	INARCA	-	4-POL	C-6450388700	-	
J18	1	SOCKET	AMP	HYLSA TILL 61081512	-	61055751	-	

## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. EXP3

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
	1	BLOCK	INARCA	-	4-POL	C-6450388700		
J2	1	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	BLOCK	RAST5	-	5-POL	0854094700		
J3	1	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	BLOCK	RAST5	-	6-POL.	0854156700		
J4	1	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	BLOCK	RAST5	-	5-POL	0854094700		
J4:2	1	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	1	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	1	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	TELEMECANIQUE	LC1K0910M7 230V	20/20A 40/60 °C	63723010	-	
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GULD	733.0103	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GULD	733.0103	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		
Z1	1	FILTER	PROCOND ELETTRO	411141410	230V 1N 50Hz	60702000	-	
Z2	1	FILTER	PROCOND ELETTRO	411135901D	250V 3N 50Hz		-	
X10 (17	1	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MN	62231241		
B1	1	-	OEM	831613AN	16A/4A/250VAC	60383161	-	

# EL. COMPONENT LIST

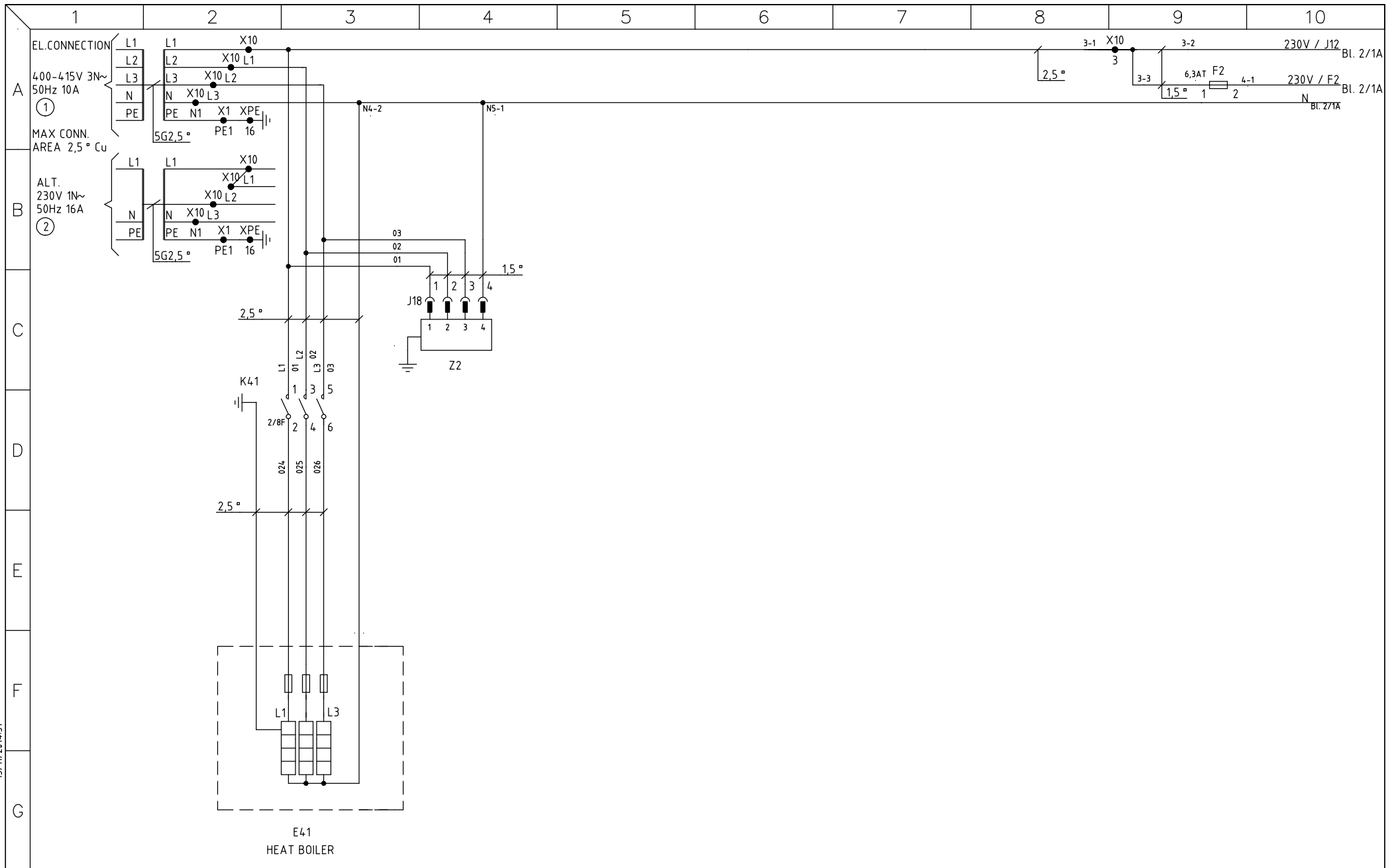
TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. EXP3

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
B21	1		GADELIUS	ESP PBM-36	-	61111300	-	
B41	1		GADELIUS	ESP PBM-36	-	61111300	-	
E21	1	ELECTRIC HEATER	X	-	1800W/230V	604.1805	-	
E41	1	EL.CARTRIDGE	X	-	5400W/230/400V	303803.01	-	
M1	1	-	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 4A IP20	805.2670	-	
M10	1	-	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660	OPTION	
M15	1	-	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89m	-	OPTION	
M8	1	-	HANNING	DPS35-008	0,4kW 0,25A	735.0310	OPTION	
M9	1	-	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
SP3	1	LEVEL SW.	HUGO TILLQUIST AB	POO6P 140MM	40W/1A/50V	733,0514	67182401	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	-	OPTION	

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① 400-415V 5,4kW 7,8A

② 230V 3,6kW 15,6A

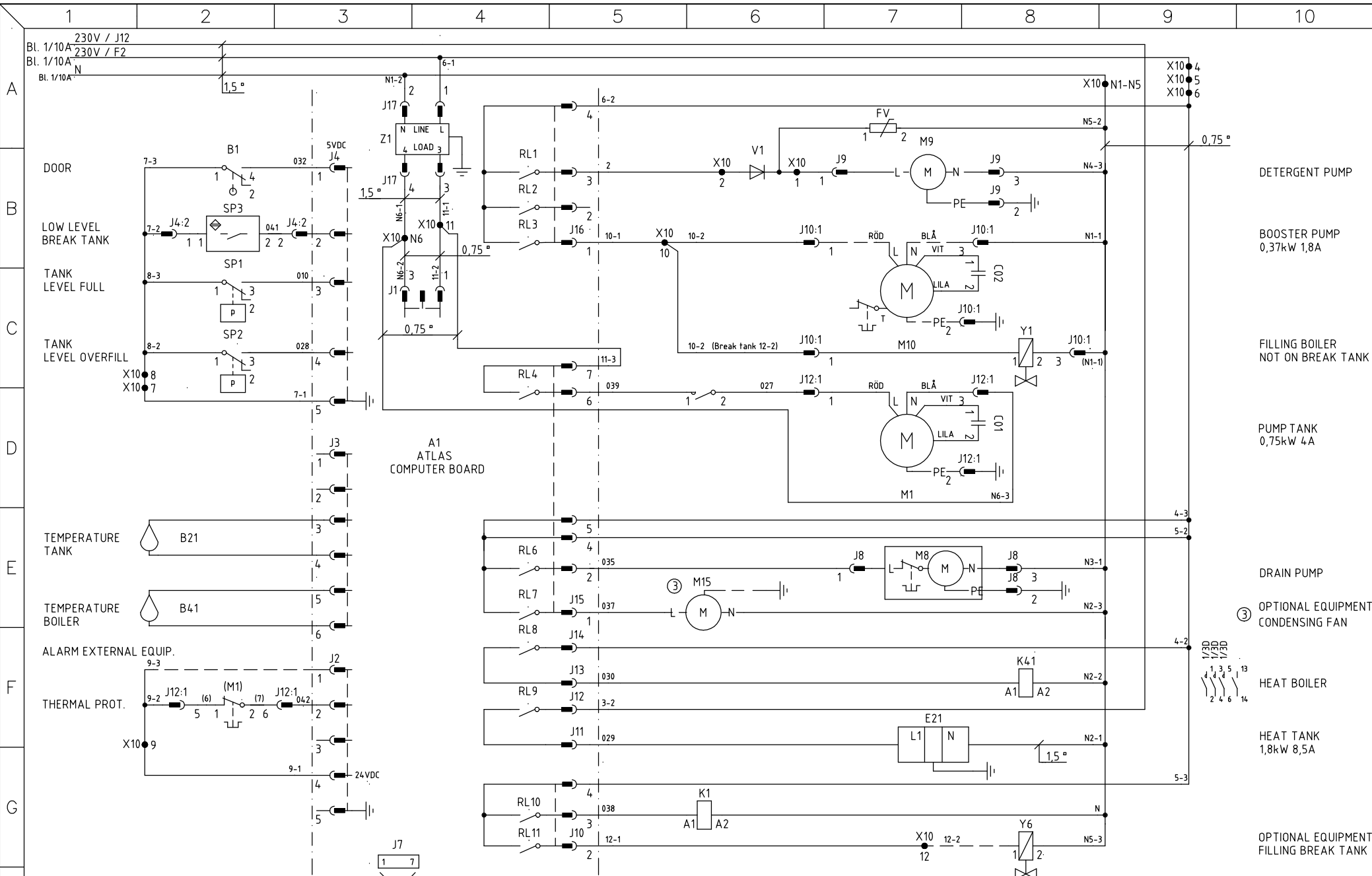
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	DESIGNATION		FROM MACHINE	TO MACHINE	DATE
	WD-4S A,G				131121
	400-415V/3N/50Hz_230V/1N/50Hz		REG.	DESIGN AA	DRAWN AA
		DRAWING NO		REV.	SHEET
		E56874		EXP4	1
				CONT.	2

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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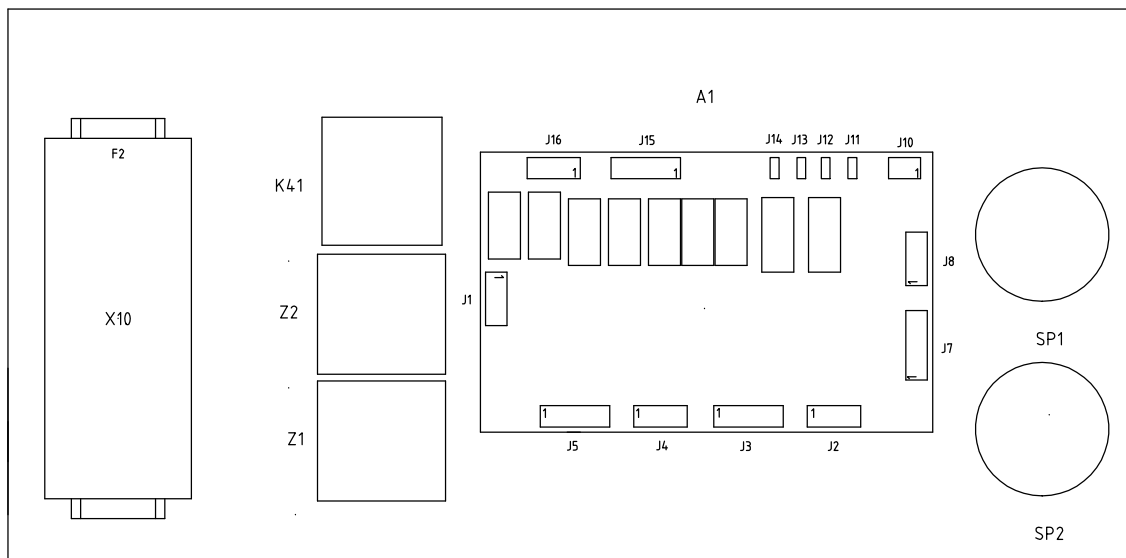


		DESIGNATION		WD-4S A,G	
		REG.		400-415V/3N/50Hz_230V/1N/50Hz	
EL. CONTROL CIRCUIT DIAGR		FROM MACHINE	TO MACHINE	DATE	
		DESIGN	DRAWN	APPR.	SHEET
		DRAWING NO	REV.	CONT.	
		E56874	EXP4	3	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE

	DESIGNATION		FROM MACHINE	TO MACHINE	DATE
	WD-4S                              A,G				131121
	400-415V/3N/50Hz_230V/1N/50Hz		REG.	DESIGN AA	DRAWN AA
EL. CONTROL CIRCUIT DIAGR		DRAWING NO E56874		REV. EXP4	SHEET 3 CONT. -

## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. EXP4

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	-	KERAMISK 6,3AT	52029934	-	
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	1	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	1	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J10:1	1	BLOCK	AMP	VAL-U-LOK	-	61072206	-	
	1	BLOCK	AMP	VAL-U-LOK	3-POL	61072202	-	
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12:1	1	BLOCK	AMP	VAL-U-LOK	-	61072206	-	
	1	BLOCK	AMP	VAL-U-LOK	6-POL	61072205	-	
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	1	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	1	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J17	1	SOCKET	AMP	HYLSA TILL 61081512	-	61055751	-	
	2	BLOCK	INARCA	-	2-POL	0863314700	INARCA NR	
J18	1	SOCKET	AMP	HYLSA TILL 61081512	-	61055751	-	



## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. EXP4

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
	1	BLOCK	INARCA	-	2-POL	0863314700	INARCA NR	
J2	1	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	BLOCK	RAST5	-	5-POL	0864094700		
J3	1	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	1	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	1	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	1	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	1	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K1	1	MINI.CONTACTOR	SCHNEIDER EL	LC1 SKGC	230V 20/12A 40/60 °C	63723011		4
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55 °C	63702300		
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0103	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0103	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		
Z1	1	FILTER	PROCOND ELETTRONICA	411142410B	230V 1N 50Hz 10A 40 °C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRONICA	411135901D	250V 3N 50Hz	65005255	-	
X10 (17	1	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		

# EL. COMPONENT LIST

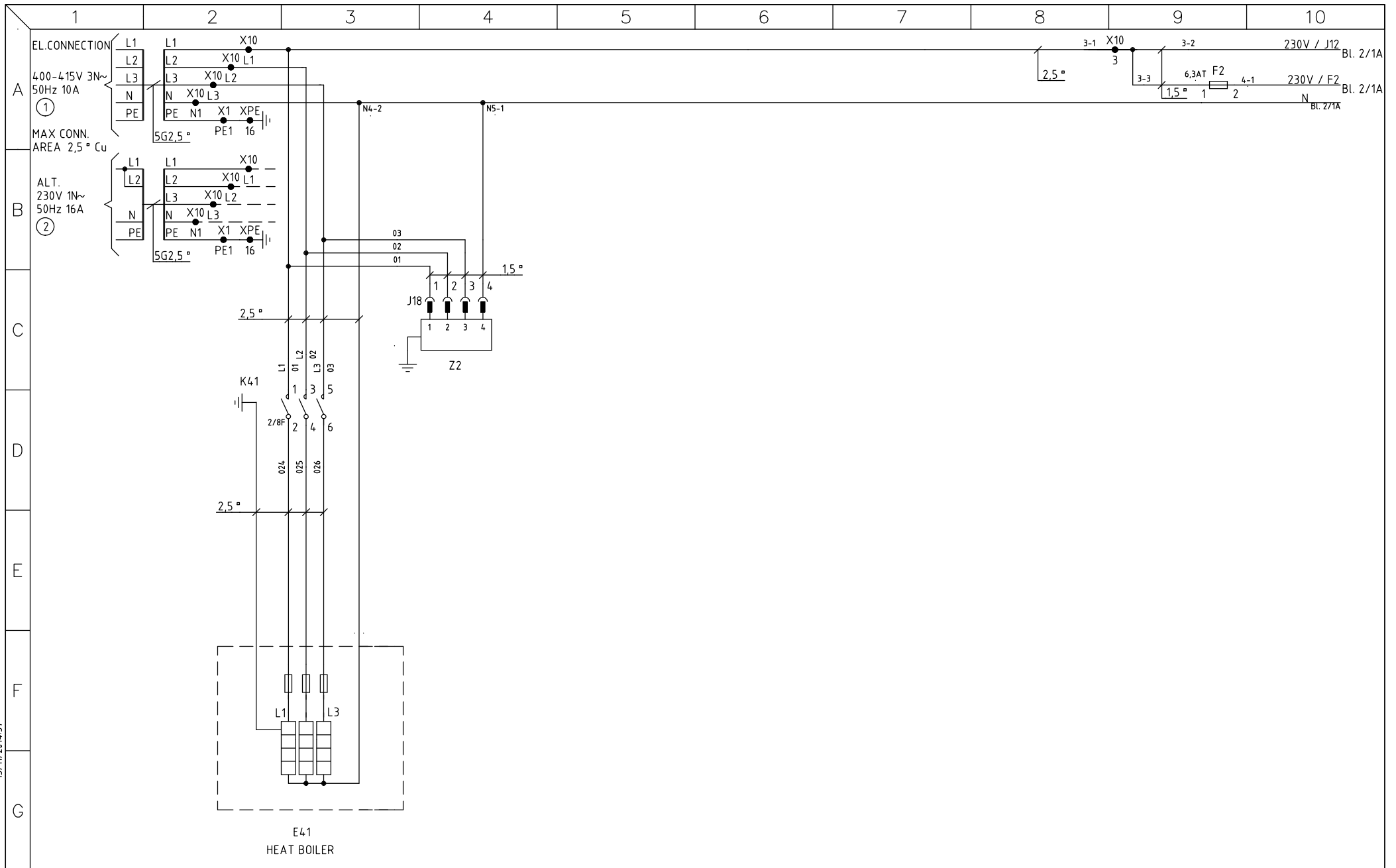
TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. EXP4

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	ESP PBM-36	-	61111300	-	
B41	1	TEMP. SENSOR	GADELIUS	ESP PBM-36	-	61111300	-	
E21	1	ELECTRIC HEATER	X	-	1800W/230V	604.1805	-	
E41	1	EL.CARTRIDGE	X	-	5400W/230/400V	303803.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 4A IP20	805.2670	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660	OPTION	
M15	1	PUMP MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	-	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310	OPTION	
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
SP3	1	LEVEL SW.	HUGO TILLQUIST AB	POO6P 140MM	40W/1A/50V	733,0514	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	

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Experiment-01.dwg



① 400-415V 4,2kW 6A

② 230V 2,8kW 12A

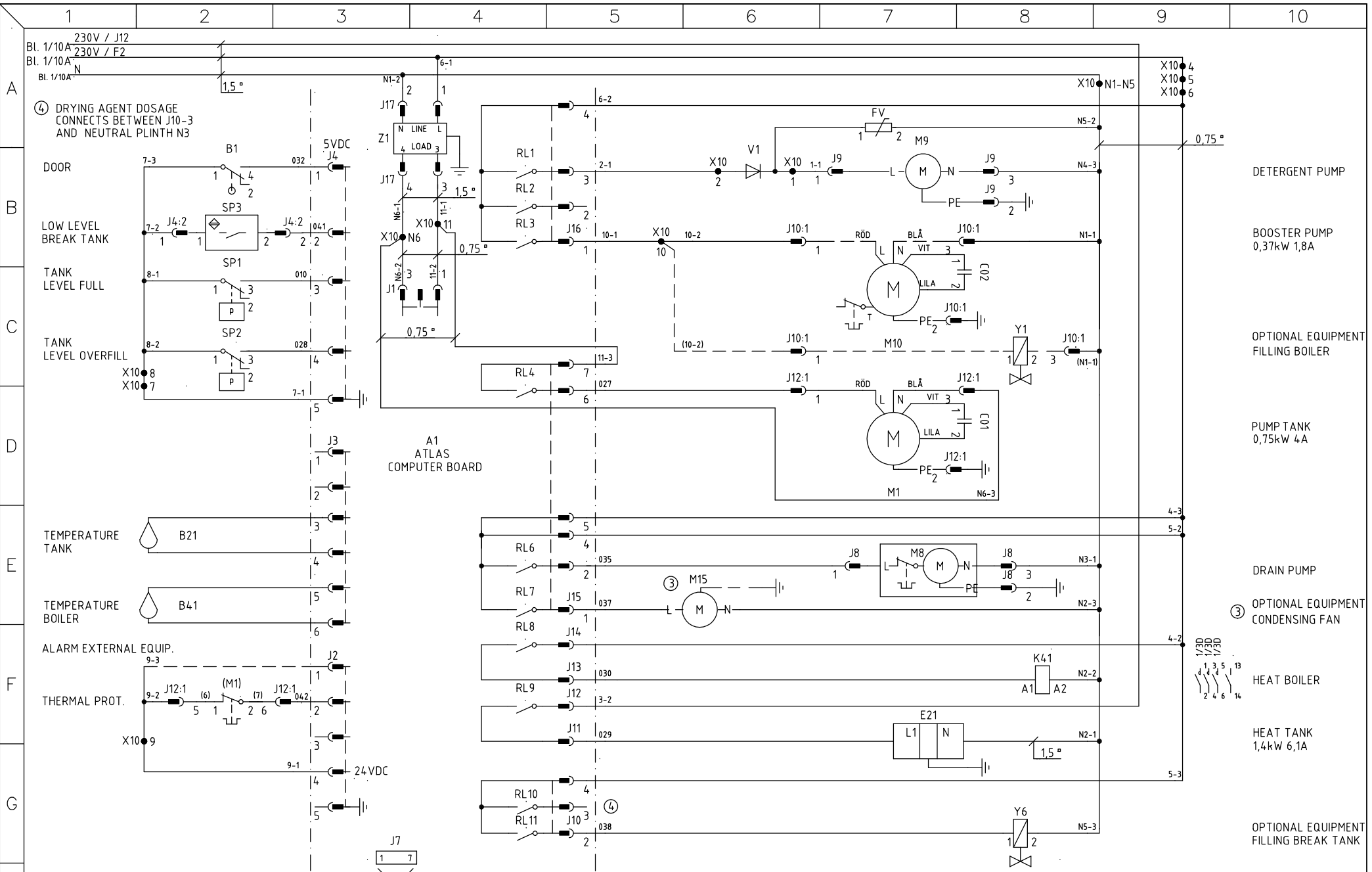
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	DESIGNATION		FROM MACHINE	TO MACHINE	DATE
	WD-4S A,G				131121
	400-415V/3N/50Hz_230V/1N/50Hz		REG.	DESIGN AA	DRAWN AA
EL. MAIN CIRCUIT DIAGRAM			DRAWING NO E56874	REV.	SHEET 1
					CONT. 2

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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Experiment-02.dwg



		DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
		WD-4S A,G		REG.		DESIGN AA		131121	
		400-415V/3N/50Hz_230V/1N/50Hz				DRAWN AA		APPR. DS	
		EL. CONTROL CIRCUIT DIAGR				DRAWING NO E56874		REV. CONT.	
								3	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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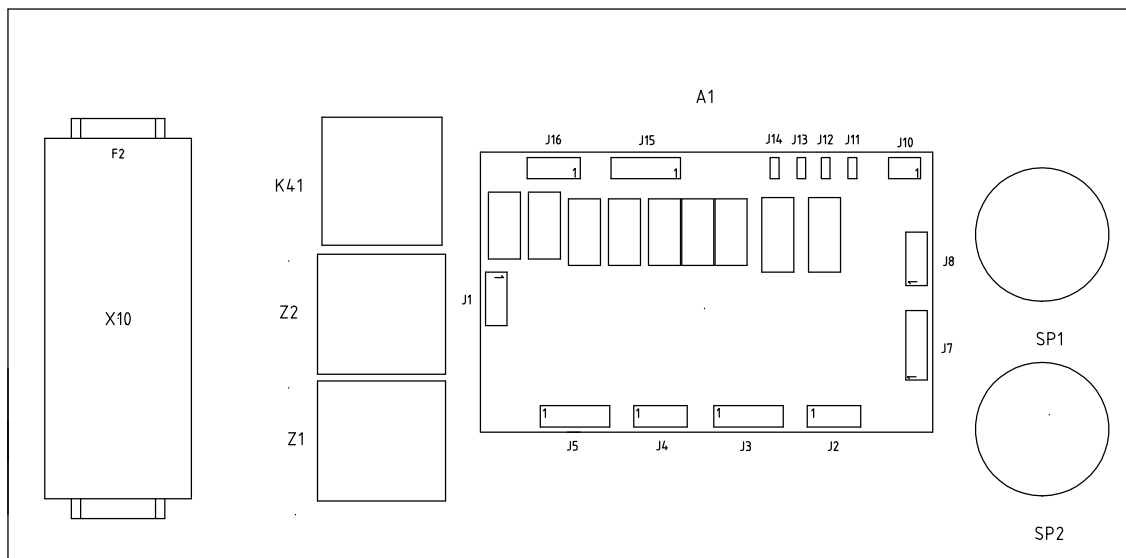
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Experiment-03.dwg

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400-415V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874			-	

## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 00

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC-BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J10:1	3	BLOCK	AMP	VAL-U-LOK	-	61072206	-	
	1	REC.BLOCK	AMP-2029110-3	VAL-U-LOK	3-POL, PANEL MOUNT	61072208	-	
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12:1	5	BLOCK	AMP	VAL-U-LOK	-	61072206	-	
	1	REC.BLOCK	AMP-1586861-6	VAL-U-LOK	6-POL, PANEL MOUNT	61072209	-	
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	3	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J17	4	SOCKET	AMP	HYLSA TILL 61081512	-	61055751	-	
	2	REC.BLOCK	INARCA	-	2-POL	0863314700	INARCA NR	

## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 00

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J18	4	SOCKET	AMP	HYLSA TILL 61081512	-	61055751	-	
	2	REC.BLOCK	INARCA	-	2-POL	0863314700	INARCA NR	
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	5	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55°C	63702300	-	
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0103	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0103	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309	-	
Z1	1	FILTER	PROCOND ELETTRONICA	411142410B	230V 1N 50Hz 10A 40°C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRONICA	411135901D	250V 3N 50Hz	65005255	-	
X10 (14 st)	1	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241	-	

# EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 00

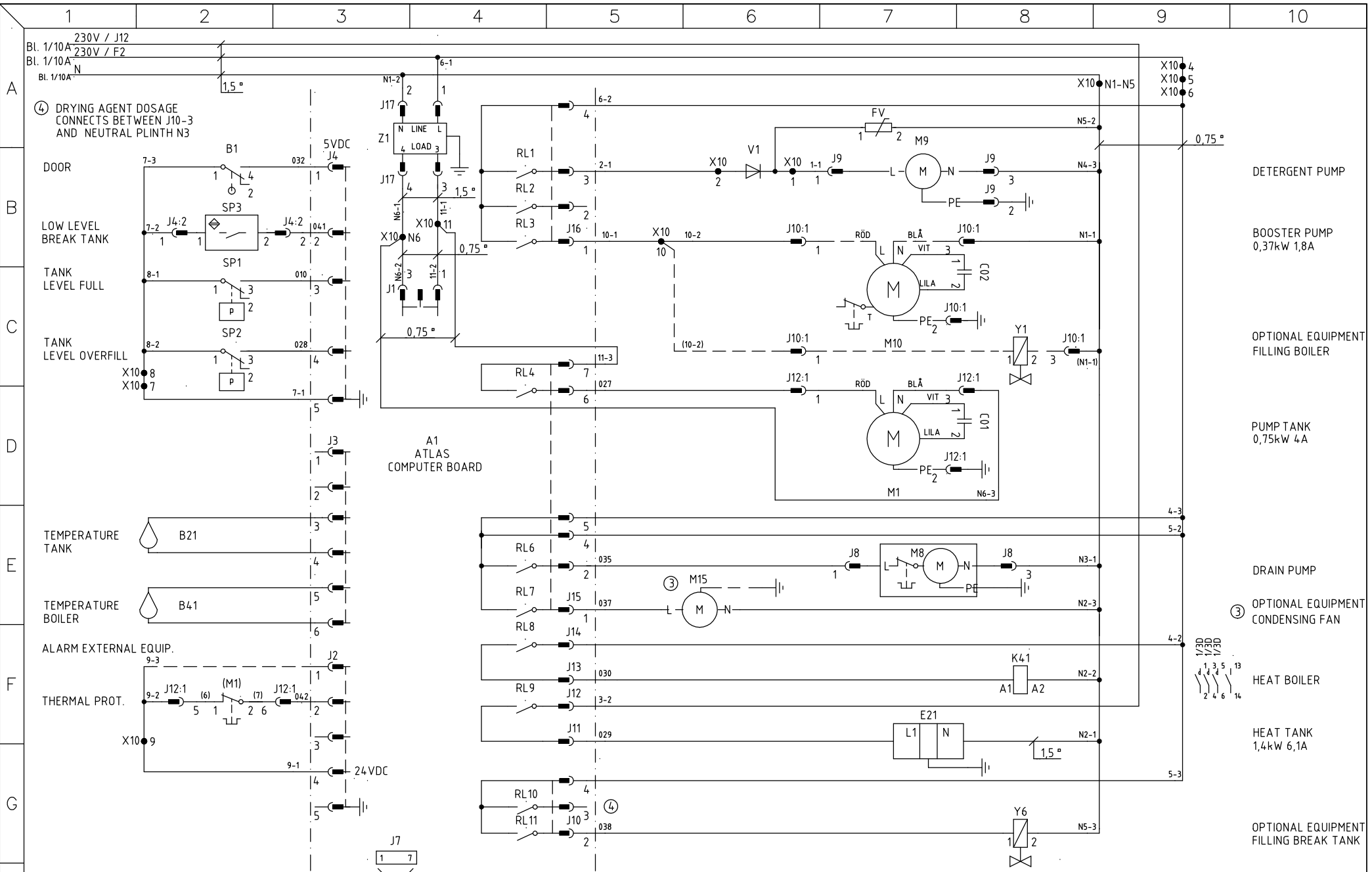
Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10 (6 st)	1	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10 (1st)	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	BACKER	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	BACKER	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 4A IP20	805.2670	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660	OPTION	
M15	1	PUMP MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	-	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	40W 0,25A	735.0310	OPTION	
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
SP3	1	LEVEL SW.	HUGO TILLQUIST AB	POO6P 140MM	40W/1A/50V	733,0514	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	





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Experiment-02.dwg



		DESIGNATION		WD-4S		A,G		FROM MACHINE		TO MACHINE		DATE	
		REG.		400-415V/3N/50Hz_230V/1N/50Hz		EL. CONTROL CIRCUIT DIAGR				DESIGN AA		DRAWN AA	
								DRAWING NO		REV.		DATE	
								E56874		1		131121	
										APPR.		SHEET	
										DS		2	
										CONT.		3	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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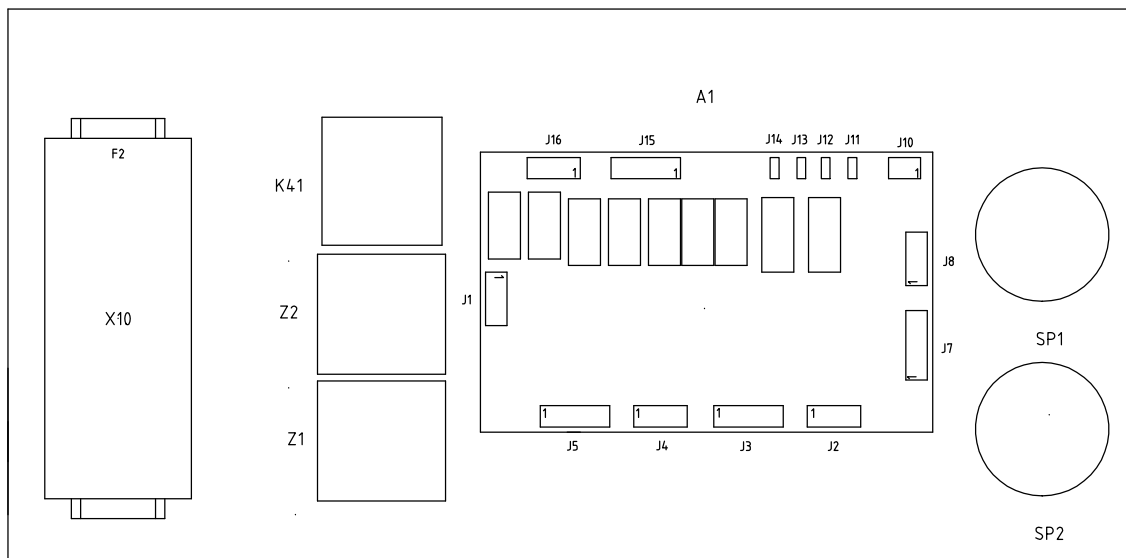
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Experiment-03.dwg 13/11/15 12:06

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400-415V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874		1	-	

## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 01

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC-BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J10:	3	BLOCK	AMP	VAL-U-LOK	-	61072206	-	
	1	REC.BLOCK	AMP-2029110-3	VAL-U-LOK	3-POL, PANEL MOUNT	61072208	-	
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12:	5	BLOCK	AMP	VAL-U-LOK	-	61072206	-	
	1	REC.BLOCK	AMP-1586861-6	VAL-U-LOK	6-POL, PANEL MOUNT	61072209	-	
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	3	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J17	4	SOCKET	RAST 5	INARCA	-	61055751		1
	2	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	1

# EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 01

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J18	4	SOCKET	RAST 5	INARCA	-	61055751		1
	1	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	1
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	5	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55°C	63702300	-	
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0103	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0103	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309	-	
Z1	1	FILTER	PROCOND ELETTRON	411142410B	230V 1N 50Hz 10A 40°C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRON	411135901D	250V 3N 50Hz	65005255	-	
X10	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241	-	

# EL. COMPONENT LIST

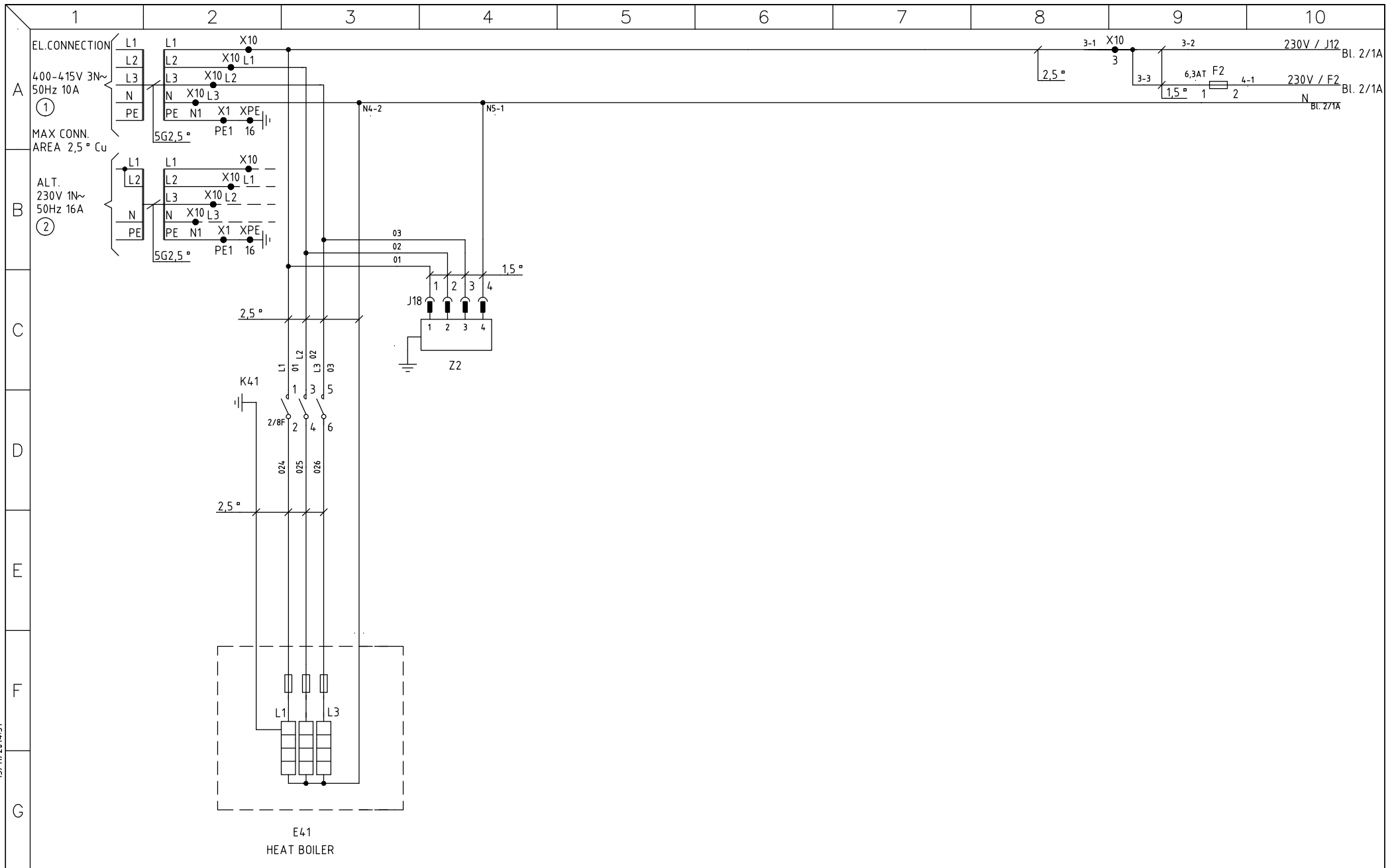
TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 01

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	X	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	X	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 4A IP20	805.2670	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660	OPTION	
M15	1	PUMP MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	-	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310	OPTION	
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
SP3	1	LEVEL SW.	HUGO TILLQUIST AB	POO6P 140MM	40W/1A/50V	733,0514	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	

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Experiment-01.dwg



① 400-415V 4,2kW 6A

② 230V 2,8kW 12A

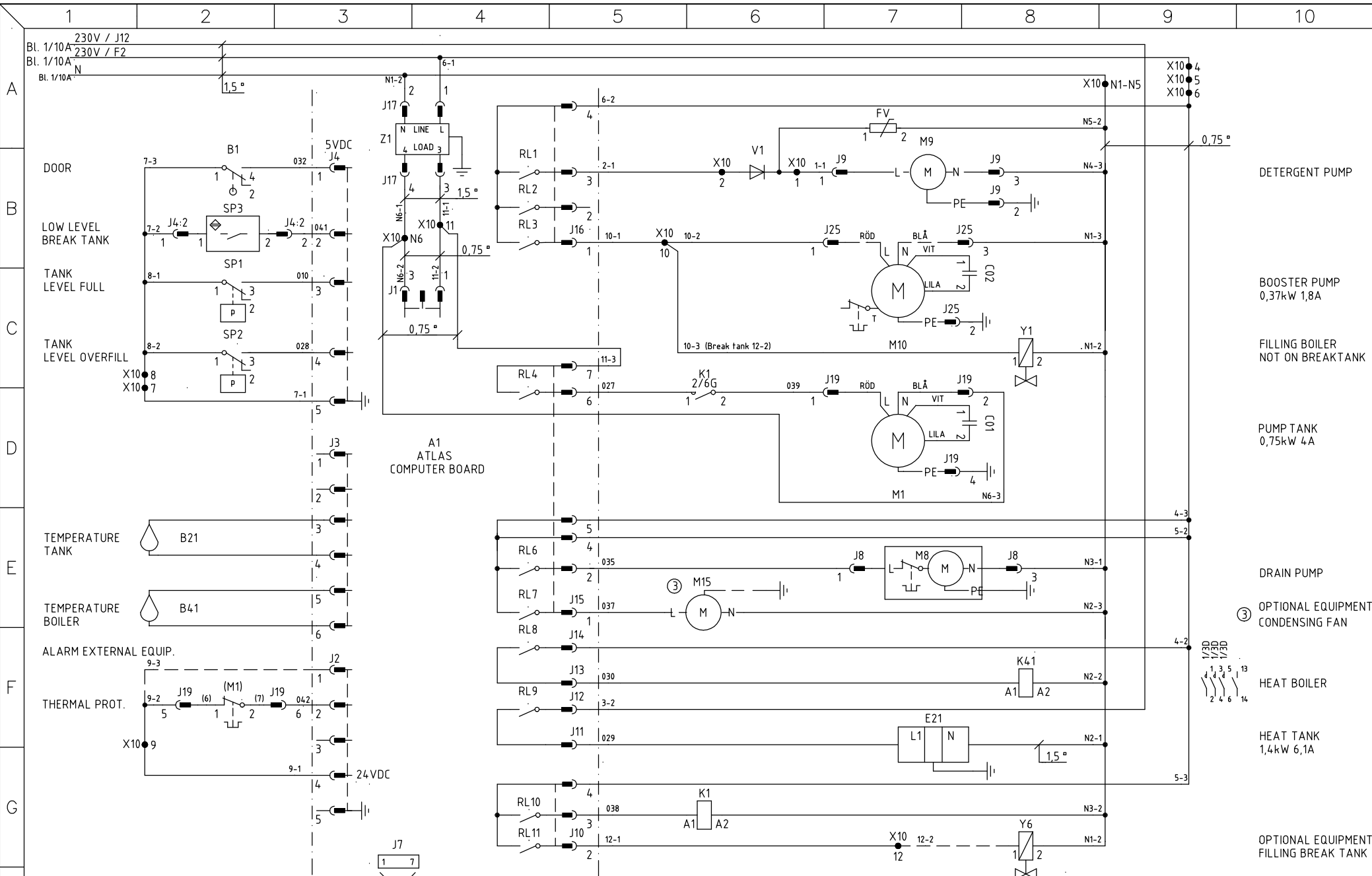
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	DESIGNATION		FROM MACHINE	TO MACHINE	DATE
	WD-4S A,G				131121
	400-415V/3N/50Hz_230V/1N/50Hz		REG.	DESIGN AA	DRAWN AA
		DRAWING NO E56874		REV. 2	SHEET 1
					CONT. 2

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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Experiment-02.dwg



NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
				2	M1, M10, RELÄ K1.	AA	150128



DESIGNATION  
WD-4S A,G  
400-415V/3N/50Hz\_230V/1N/50Hz  
EL. CONTROL CIRCUIT DIAGR

FROM MACHINE	TO MACHINE	DATE
REG.	DESIGN AA	131121
	DRAWN AA	APPR. DS
	DRAWING NO E56874	REV. 2
		SHEET 2
		CONT. 3

- DETERGENT PUMP
- BOOSTER PUMP  
0,37kW 1,8A
- FILLING BOILER  
NOT ON BREAKTANK
- PUMP TANK  
0,75kW 4A
- DRAIN PUMP
- OPTIONAL EQUIPMENT  
CONDENSING FAN
- HEAT BOILER
- HEAT TANK  
1,4kW 6,1A
- OPTIONAL EQUIPMENT  
FILLING BREAK TANK



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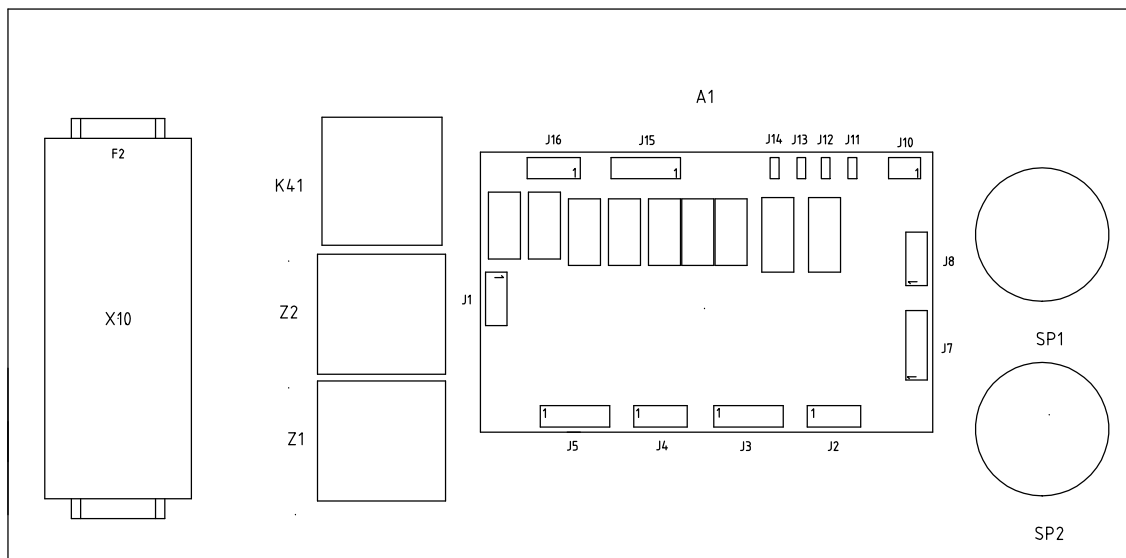
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Experiment-03.dwg

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400-415V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874		2	-	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 2

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC-BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J25	3	SOCKET	AMP	-	-	61026893	-	2
	1	REC.BLOCK	UMNL	-	4-POL PANEL MOUNT	61050703	-	2
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J19	5	SOCKET	AMP	-	-	61026893	-	2
	1	REC.BLOCK	UMNL	-	6-POL, PANEL MOUNT	61026682	-	2
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	3	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J17	4	SOCKET	RAST 5	INARCA	-	61055751		

# EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 2

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
	2	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J18	4	SOCKET	RAST 5	INARCA	-	61055751		
	1	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	5	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K1	1	MINI.CONTACTOR	SCHNEIDER EL	LC1 SKGC 230V	230V 2-P 12/20A	63723011		2
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55°C	63702300		
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0103	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0103	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		
Z1	1	FILTER	PROCOND ELETTRON	411142410B	230V 1N 50Hz 10A 40°C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRON	411135901D	250V 3N 50Hz	65005255	-	

**EL. COMPONENT LIST**

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

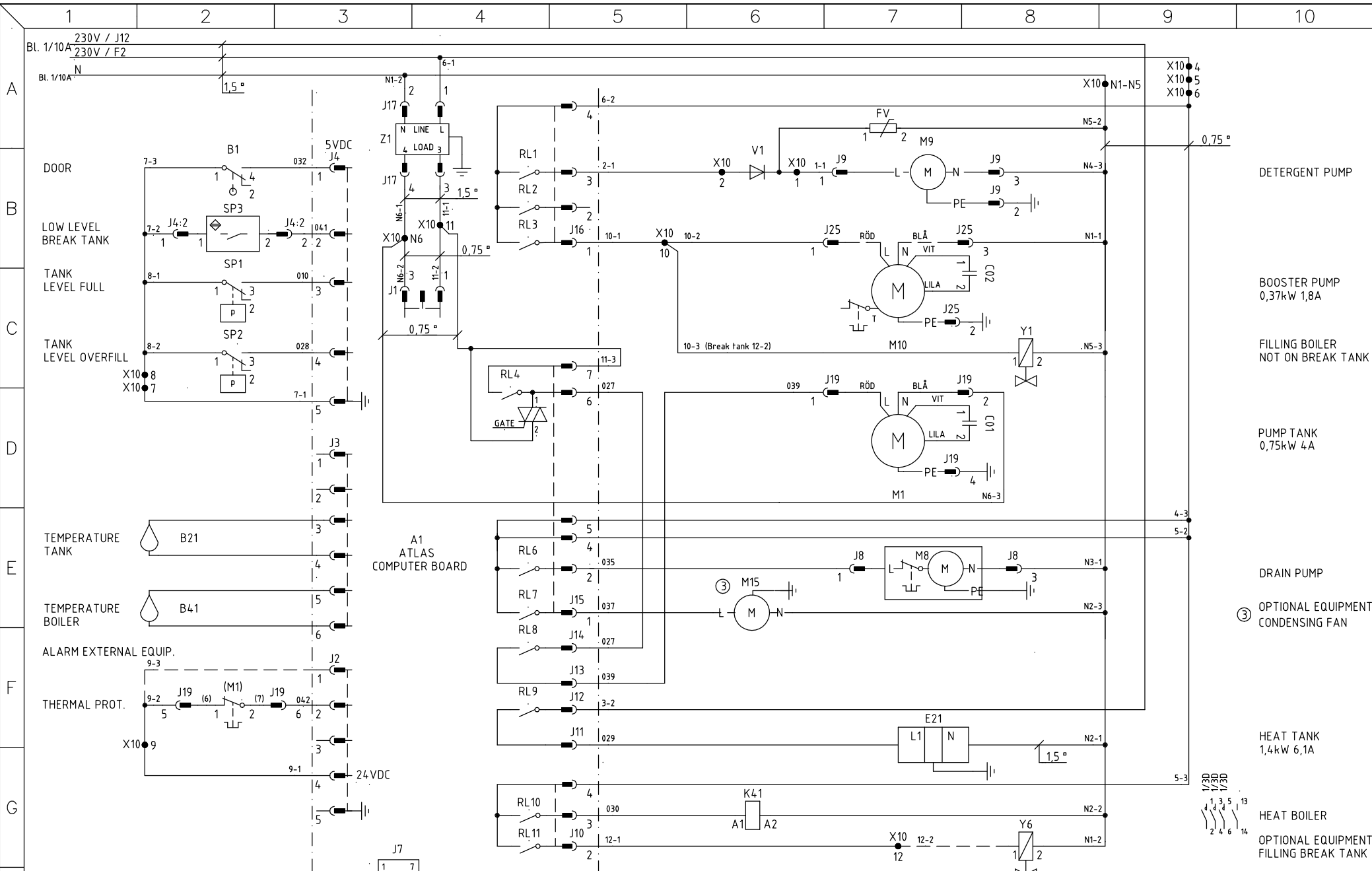
REM: REV. 2

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10 (1	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		
X10 (6	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10 (1	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	X	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	X	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 4A IP20	805.2670D	-	2
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660D	OPTION	2
M15	1	PUMP MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	-	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310	OPTION	
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
SP3	1	LEVEL SW.	HUGO TILLQUIST AB	POO6P 140MM	40W/1A/50V	733,0514	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	



13/11/2014-56

Experiment-02.dwg



3	SKIFTAT RL10 OCH RL8	AA	150218
2	M1, M10, RELÄ K1.	AA	150128



DESIGNATION  
WD-4S A,G  
400-415V/3N/50Hz\_230V/1N/50Hz  
EL. CONTROL CIRCUIT DIAGR

FROM MACHINE	TO MACHINE		DATE	
REG.	DESIGN AA	DRAWN AA	APPR. DS	SHEET 2
	DRAWING NO E56874		REV. 3	CONT. 3

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
3	SKIFTAT RL10 OCH RL8	AA	150218	2	M1, M10, RELÄ K1.	AA	150128

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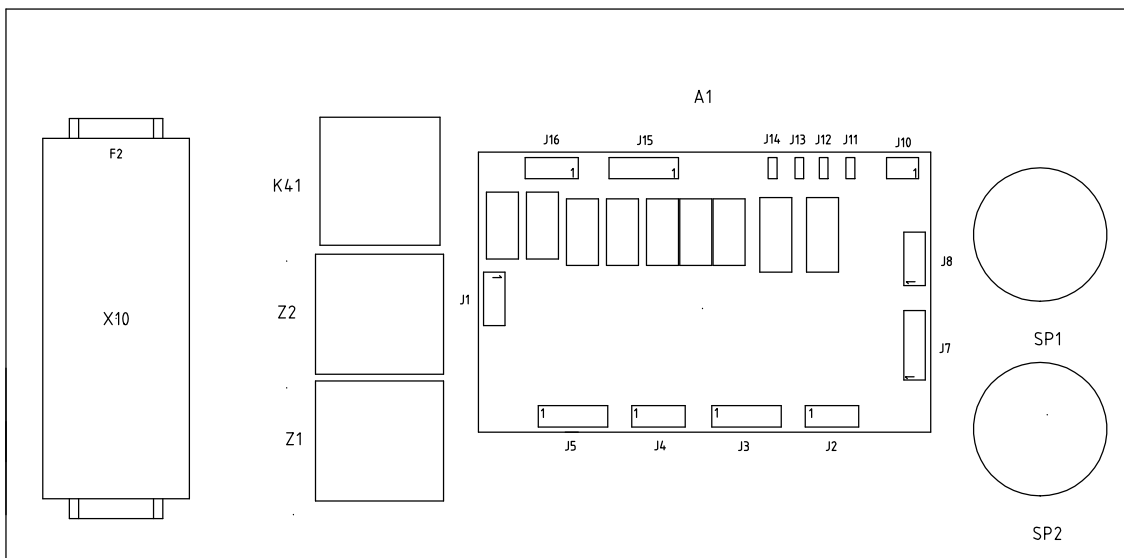
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Experiment-03.dwg 13/11/15 12:06

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400-415V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874		3	-	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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# EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 3

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC-BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J25	3	SOCKET	AMP	-	-	61026893	-	
	1	REC.BLOCK	UMNL	-	4-POL PANEL MOUNT	61050703	-	
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J19	5	SOCKET	AMP	-	-	61026893	-	
	1	REC.BLOCK	UMNL	-	6-POL, PANEL MOUNT	61026682	-	
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	3	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	



## EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 3

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J17	4	SOCKET	RAST 5	INARCA	-	61055751		
	2	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J18	4	SOCKET	RAST 5	INARCA	-	61055751		
	1	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	5	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55°C	63702300	-	
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0111	-	3
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0110	-	3
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309	-	
Z1	1	FILTER	PROCOND ELETTRON	411142410B	230V 1N 50Hz 10A 40°C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRON	411135901D	250V 3N 50Hz	65005255	-	

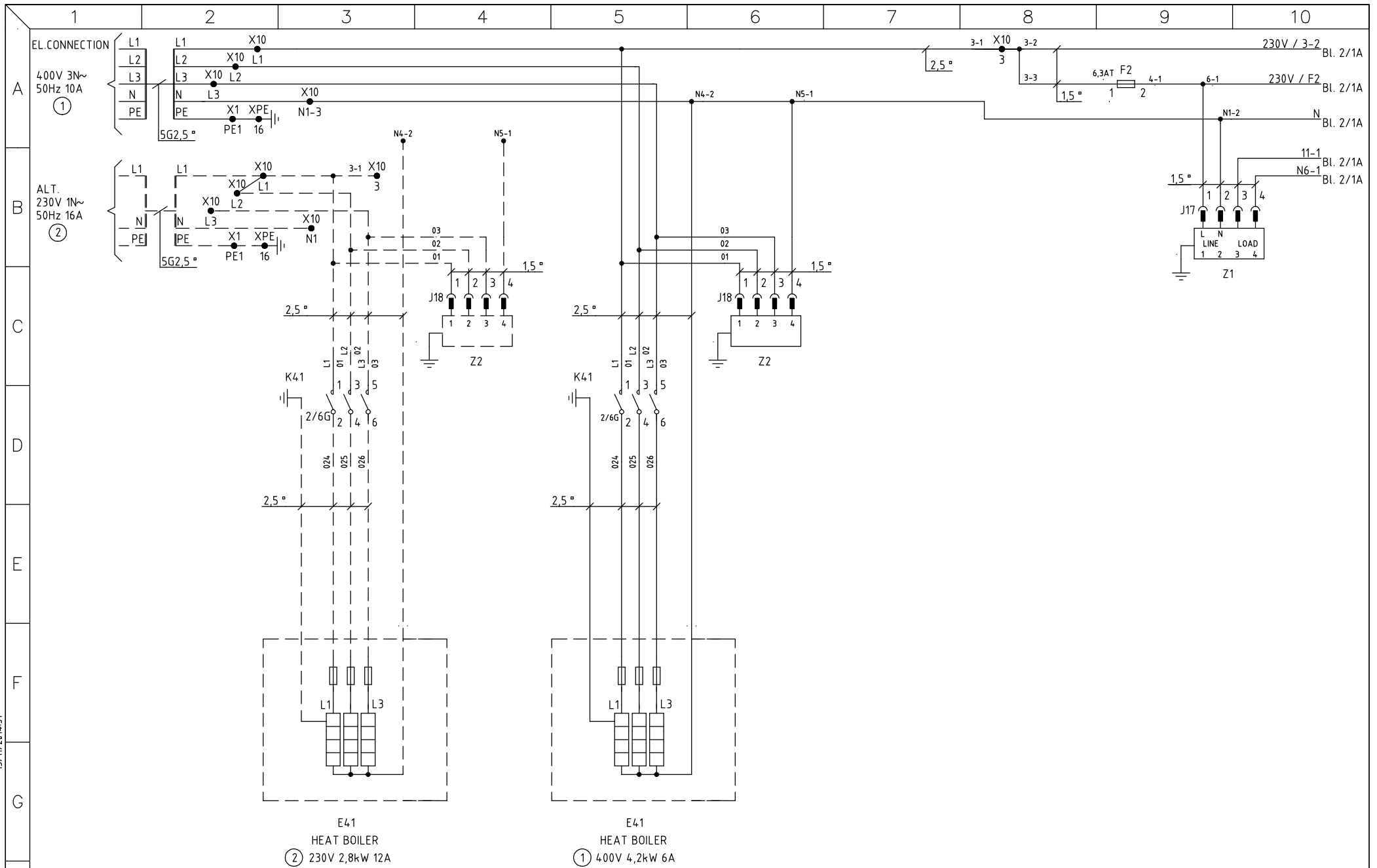
# EL. COMPONENT LIST

TYPE: 400-415V/3N/50Hz\_230V/1N/50Hz

REM: REV. 3

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10 (1	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		
X10 (6	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10 (1	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	BACKER	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	BACKER	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 4A IP20	805.2670D	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660D	OPTION	
M15	1	PUMP MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	-	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310	OPTION	
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
SP3	1	LEVEL SW.	HUGO TILLQUIST AB	POO6P 140MM	40W/1A/50V	733,0514	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	

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② E41 HEAT BOILER  
230V 2,8kW 12A

① E41 HEAT BOILER  
400V 4,2kW 6A

--- = EXTRA EQUIPMENT

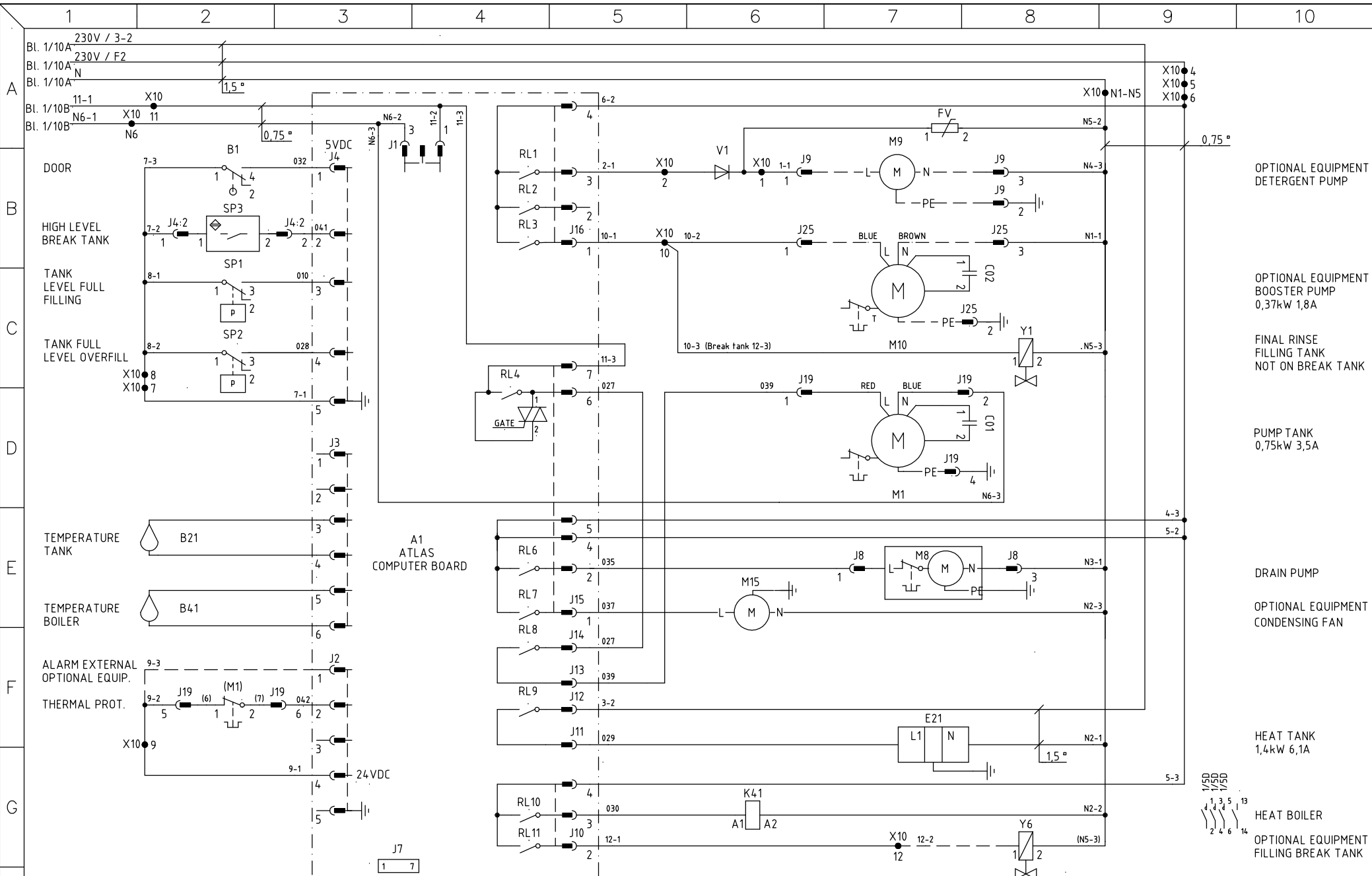


DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
WD-4S A,G						131121	
400V/3N/50Hz_230V/1N/50Hz		REG.	DESIGN	DRAWN	APPR.	SHEET	
EL. MAIN CIRCUIT DIAGRAM			AA	AA	DS	1	
		DRAWING NO			REV.		
		E56874			4 2		

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
	4			4	Z1 FLYTTAD FRÅN BL.2	AA	150401

13/11/2014-56

Experiment-02.dwg



OPTIONAL EQUIPMENT  
DETERGENT PUMP

OPTIONAL EQUIPMENT  
BOOSTER PUMP  
0,37kW 1,8A

FINAL RINSE  
FILLING TANK  
NOT ON BREAK TANK

PUMP TANK  
0,75kW 3,5A

DRAIN PUMP

OPTIONAL EQUIPMENT  
CONDENSING FAN

HEAT TANK  
1,4kW 6,1A

HEAT BOILER

OPTIONAL EQUIPMENT  
FILLING BREAK TANK

3	SKIFTAT RL10 OCH RL8	AA	150218
2	M1, M10, RELÄ K1.	AA	150128



DESIGNATION  
WD-4S A,G  
400V/3N/50Hz\_230V/1N/50Hz  
EL. CONTROL CIRCUIT DIAGR

FROM MACHINE	TO MACHINE		DATE	
REG.	DESIGN AA	DRAWN AA	APPR. DS	SHEET 2
	DRAWING NO E56874		REV. 4	CONT. 3

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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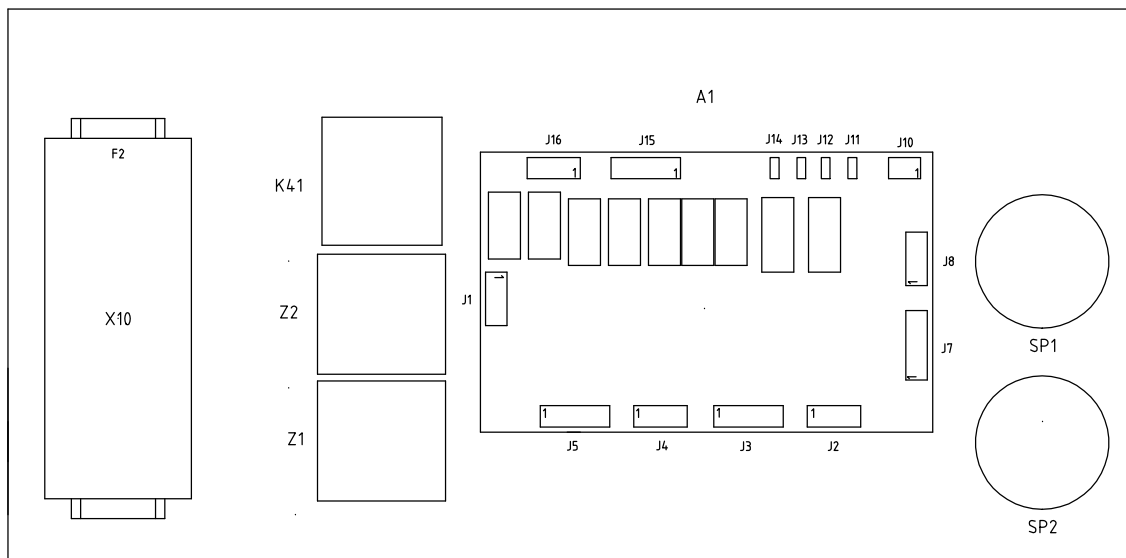
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NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874		4	-	

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150401 REV. 4

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC-BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J25	3	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		4-POL PANEL MOUNT	61050703		
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J19	5	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		6-POL, PANEL MOUNT	61026682		
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	3	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150401 REV. 4

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J17	4	SOCKET	RAST 5	INARCA	-	61055751		
	2	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J18	4	SOCKET	RAST 5	INARCA	-	61055751		
	1	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	5	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55 °C	63702300	-	
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0111	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0110	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		
Z1	1	FILTER	PROCOND ELETTRON	411142410B	230V 1N 50Hz 10A 40 °C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRON	411135901D	250V 3N 50Hz	65005255	-	

# EL. COMPONENT LIST

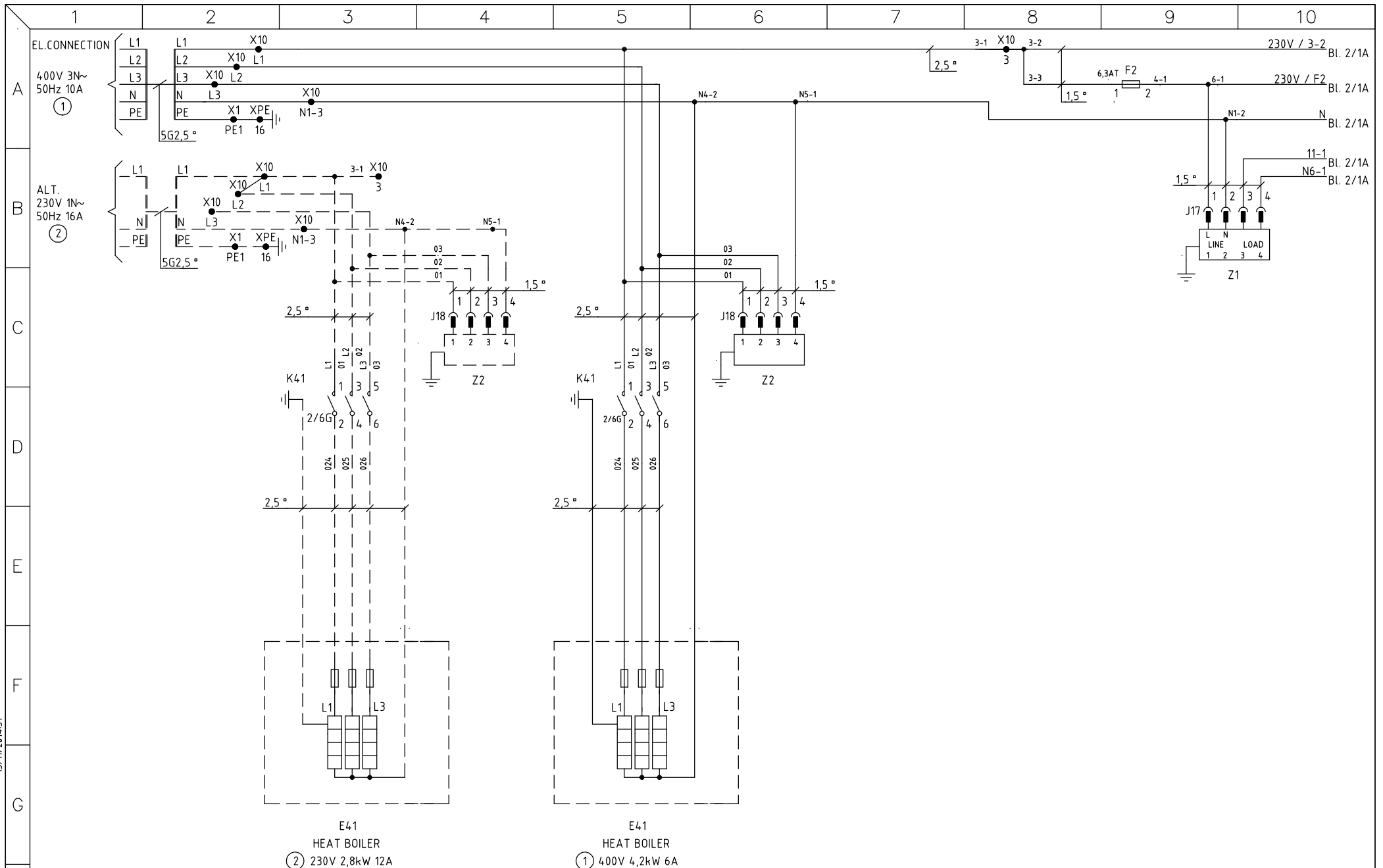
TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150401 REV. 4

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		
X10	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	BACKER	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	BACKER	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 3,5A IP20	805.2670D	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660D	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310		
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
M15	1	FAN MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	738.2026	OPTION	4
SP3	1	LEVEL SW.	OEM	03.081.00 125MM	10W/0,5A/100V	733,0515	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230		
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	



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Experiment-01.dwg



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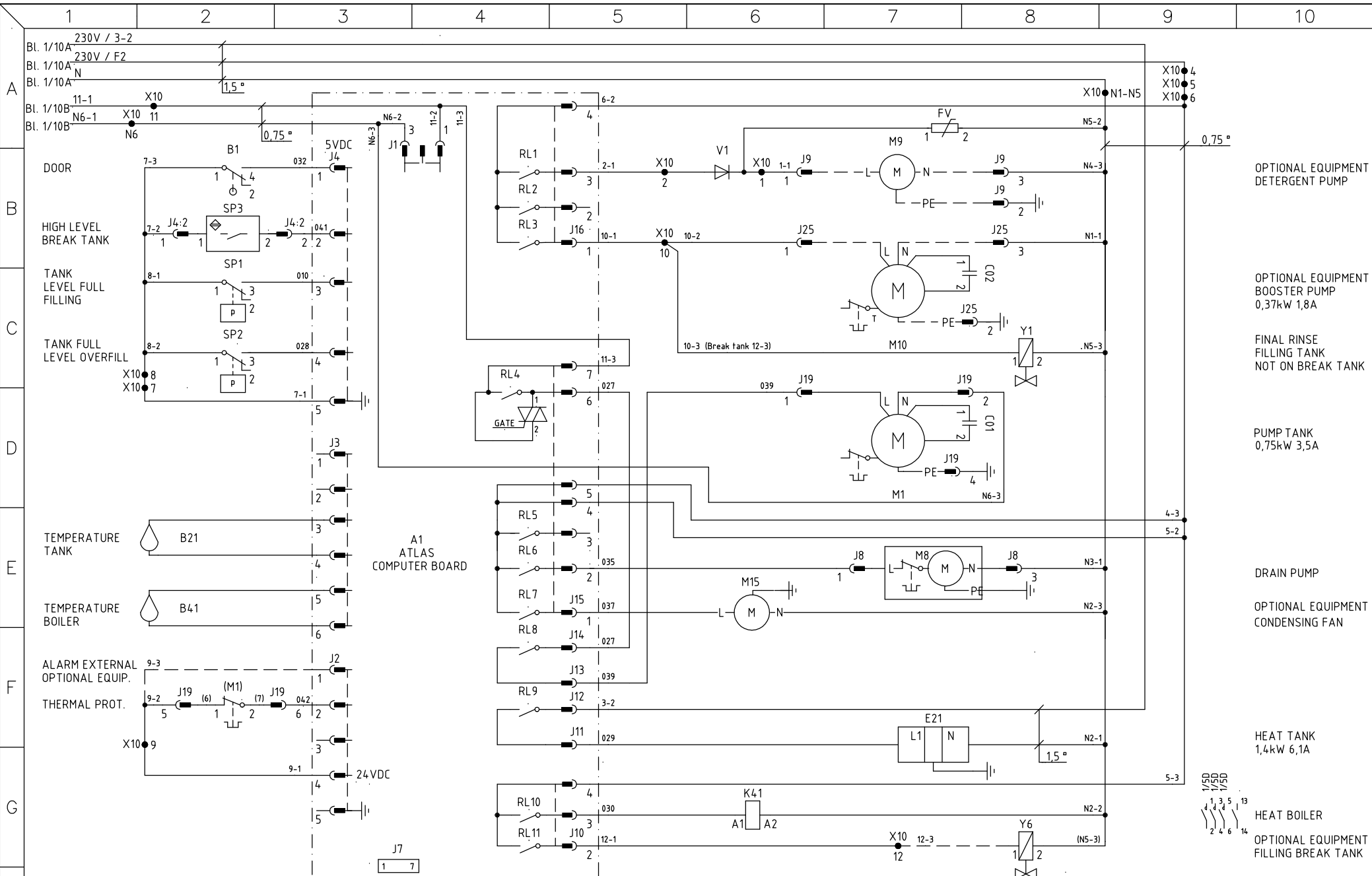


DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
WD-4S A,G						131121	
400V/3N/50Hz_230V/1N/50Hz		REG.	DESIGN	DRAWN	APPR.	SHEET	
EL. MAIN CIRCUIT DIAGRAM			AA	AA	DS	1	
		DRAWING NO		REV.		CONT.	
		E56874		5		2	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
	4			4	Z1 FLYTTAD FRÅN BL.2	AA/DS	150401

13/11/2014-56

Experiment-02.dwg



OPTIONAL EQUIPMENT  
DETERGENT PUMP

OPTIONAL EQUIPMENT  
BOOSTER PUMP  
0,37kW 1,8A

FINAL RINSE  
FILLING TANK  
NOT ON BREAK TANK

PUMP TANK  
0,75kW 3,5A

DRAIN PUMP

OPTIONAL EQUIPMENT  
CONDENSING FAN

HEAT TANK  
1,4kW 6,1A

HEAT BOILER

OPTIONAL EQUIPMENT  
FILLING BREAK TANK

3	SKIFTAT RL10 OCH RL8	AA/DS	150218
2	M1, M10, RELÄ K1.	AA/DS	150128

DESIGNATION		WD-4S		A, G	
REG.		DESIGN	DRAWN	APPR.	SHEET
		AA	AA	DS	2
		DRAWING NO		REV.	CONT.
		E56874		5	3

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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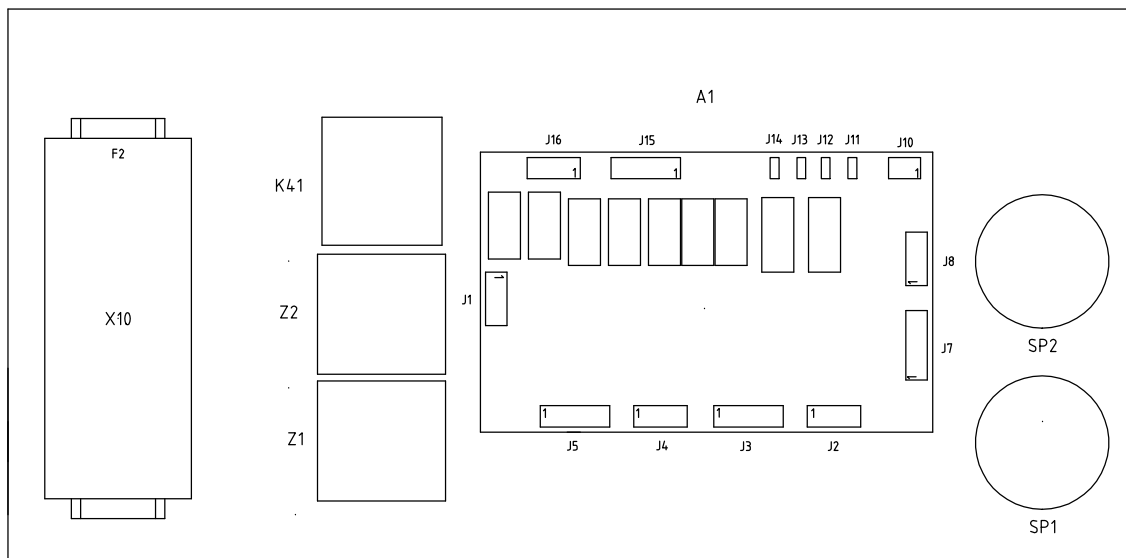
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NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
				5	SP1 och SP2 skiftat plats	AA/DS	150428

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874		5	-	

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150428 REV. 5

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC-BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J25	3	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		4-POL PANEL MOUNT	61050703		
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J19	5	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		6-POL, PANEL MOUNT	61026682		
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	3	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150428 REV. 5

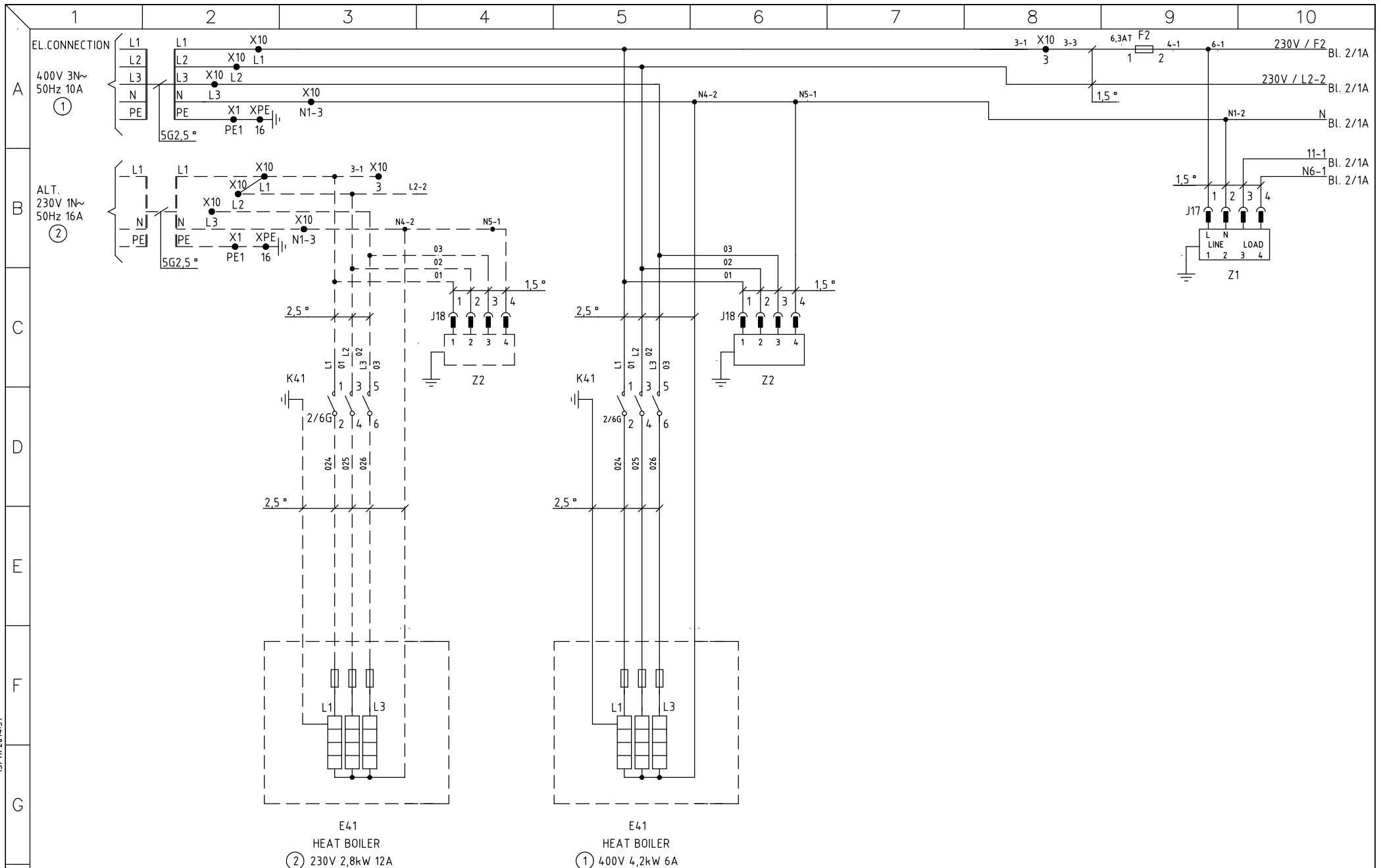
Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J17	4	SOCKET	RAST 5	INARCA	-	61055751		
	2	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J18	4	SOCKET	RAST 5	INARCA	-	61055751		
	1	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	5	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55 °C	63702300	-	
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0111	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0110	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		
Z1	1	FILTER	PROCOND ELETTRON	411142410D	230V 1N 50Hz 10A 40 °C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRON	411135901D	250V 3N 50Hz	65005255	-	

# EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150428 REV. 5

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		
X10	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	BACKER	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	BACKER	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 3,5A IP20	805.2670D	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660D	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310		
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
M15	1	FAN MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	738.2026	OPTION	
SP3	1	LEVEL SW.	OEM	03.081.00 125MM	10W/0,5A/100V	733,0515	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230		
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	

Experiment-01.dwg 13/11/2014-57



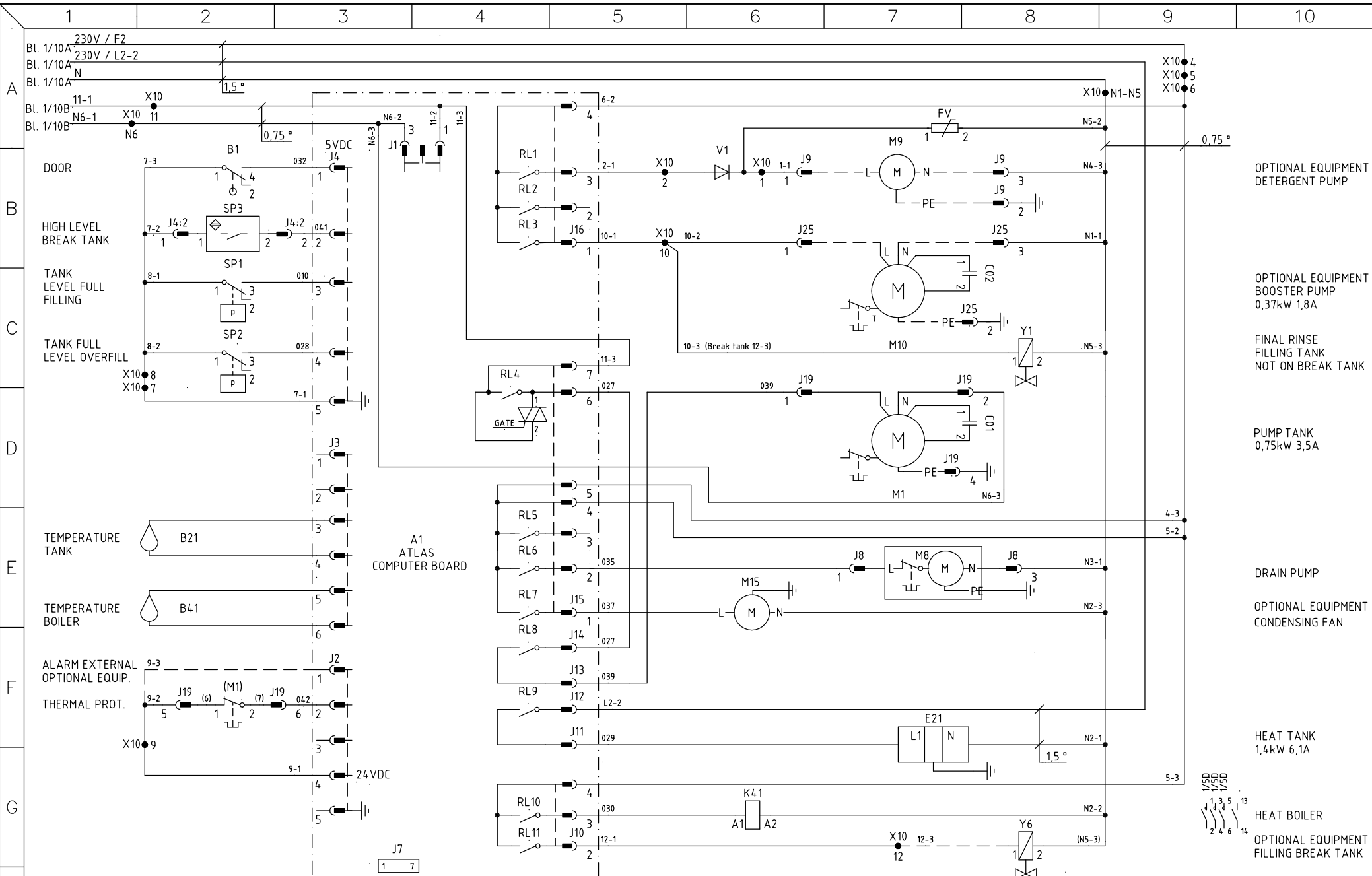
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6	MATNING TILL E21	AA/DS	150618
4	Z1 FLYTTAD FRÅN BL.2	AA/DS	150401

	DESIGNATION		WD-4S	A,G								
	REG.		400V/3N/50Hz_230V/1N/50Hz									
	EL. MAIN CIRCUIT DIAGRAM											
NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE	FROM MACHINE	TO MACHINE	DATE		
										131121		
								REG.	DESIGN AA	DRAWN AA	APPR. DS	SHEET 1
									DRAWING NO E56874	REV. 6	CONT. 2	

13/11/2014-56

Experiment-02.dwg



NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
6	MATNING TILL E21	AA/DS	150618	3	SKIFTAT RL10 OCH RL8	AA/DS	150218
				2	M1, M10, RELÄ K1.	AA/DS	150128

**DESIGNATION**  
WD-4S A,G  
400V/3N/50Hz\_230V/1N/50Hz  
EL. CONTROL CIRCUIT DIAGR

FROM MACHINE	TO MACHINE	DATE
REG.	DESIGN AA DRAWN AA	131121 APPR. DS SHEET 2
	DRAWING NO E56874	REV. 6 CONT. 3



1 2 3 4 5 6 7 8 9 10

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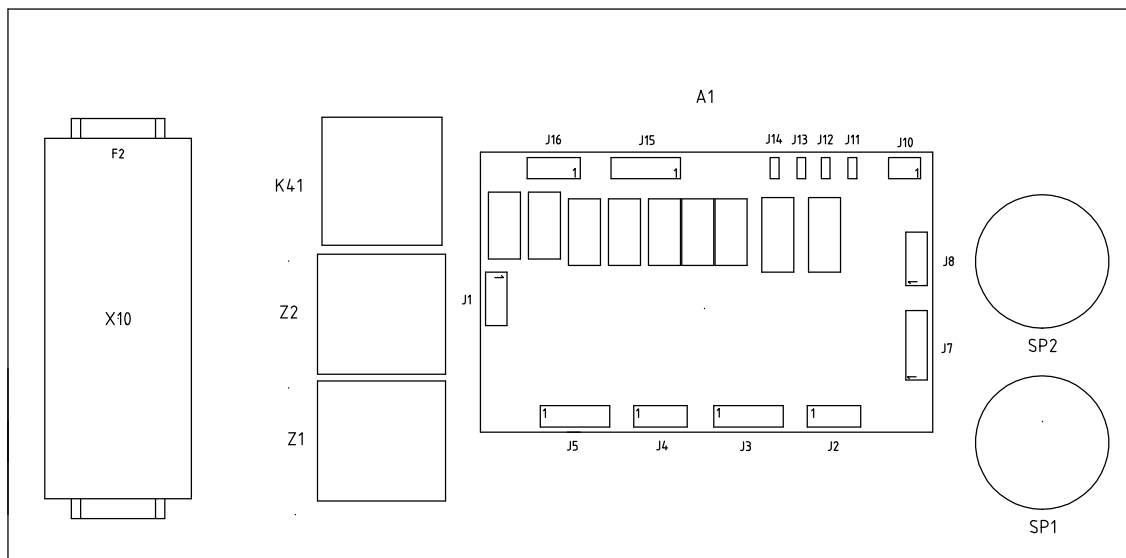
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Experiment-03.dwg

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
				5	SP1 och SP2 skiftat plats	AA/DS	150428

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874		6	-	

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150618 REV. 6

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC-BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J25	3	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		4-POL PANEL MOUNT	61050703		
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J19	5	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		6-POL, PANEL MOUNT	61026682		
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	3	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150618 REV. 6

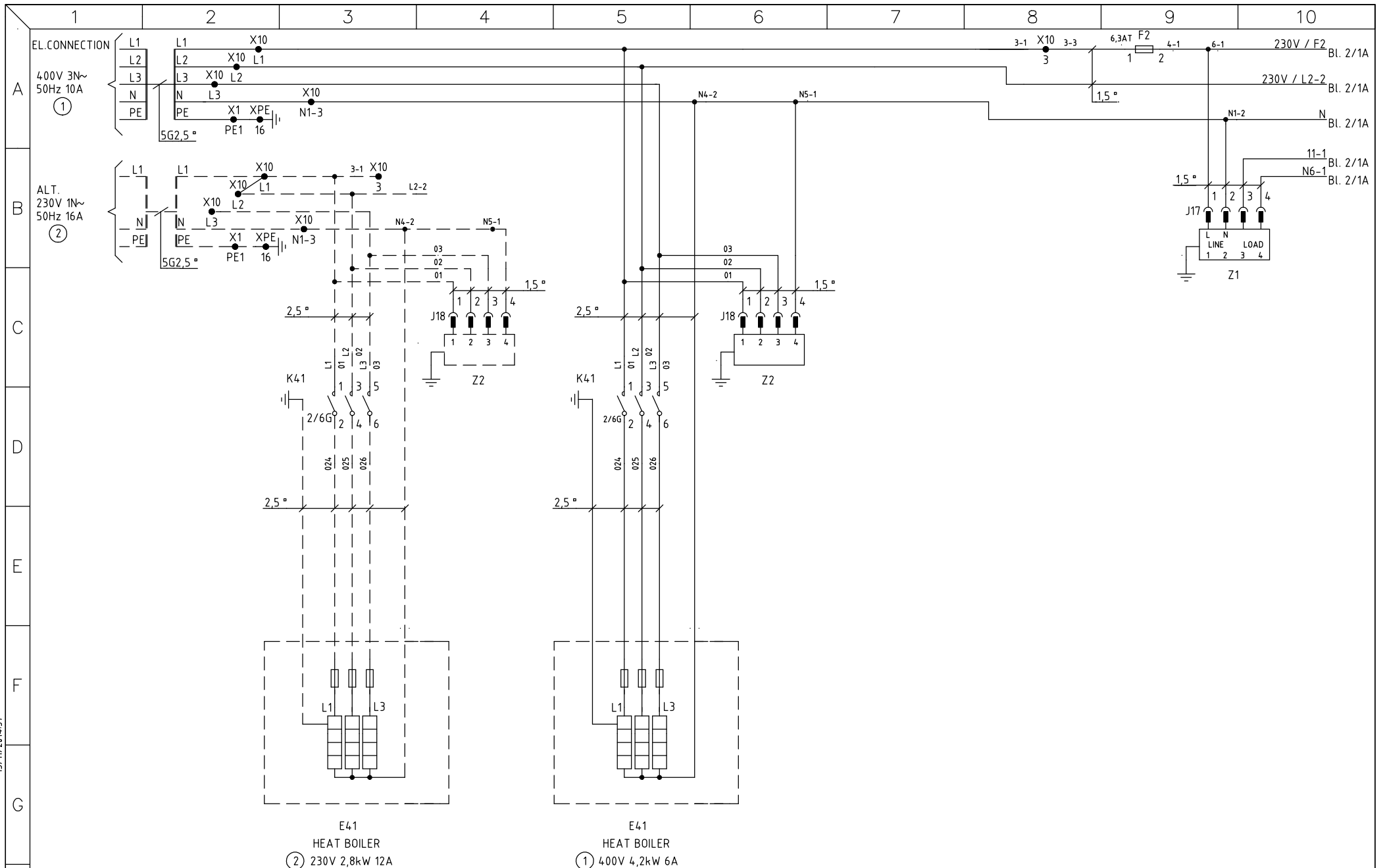
Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J17	4	SOCKET	RAST 5	INARCA	-	61055751		
	2	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J18	4	SOCKET	RAST 5	INARCA	-	61055751		
	1	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	5	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55 °C	63702300	-	
SP1	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0111	-	
SP2	1	LEVEL SWITCH	ELBI	760 210/142	16(4)A 250V GOULD	733.0110	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		
Z1	1	FILTER	PROCOND ELETTRON	411142410D	230V 1N 50Hz 10A 40 °C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRON	411135901D	250V 3N 50Hz	65005255	-	

# EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 150618 REV. 6

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		
X10	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	BACKER	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	BACKER	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 3,5A IP20	805.2670D	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660D	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310		
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
M15	1	FAN MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	738.2026	OPTION	
SP3	1	LEVEL SW.	OEM	03.081.00 125MM	10W/0,5A/100V	733,0515	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230		
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	

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6	MATNING TILL E21	AA/DS	150618
4	Z1 FLYTTAD FRÅN BL.2	AA/DS	150401

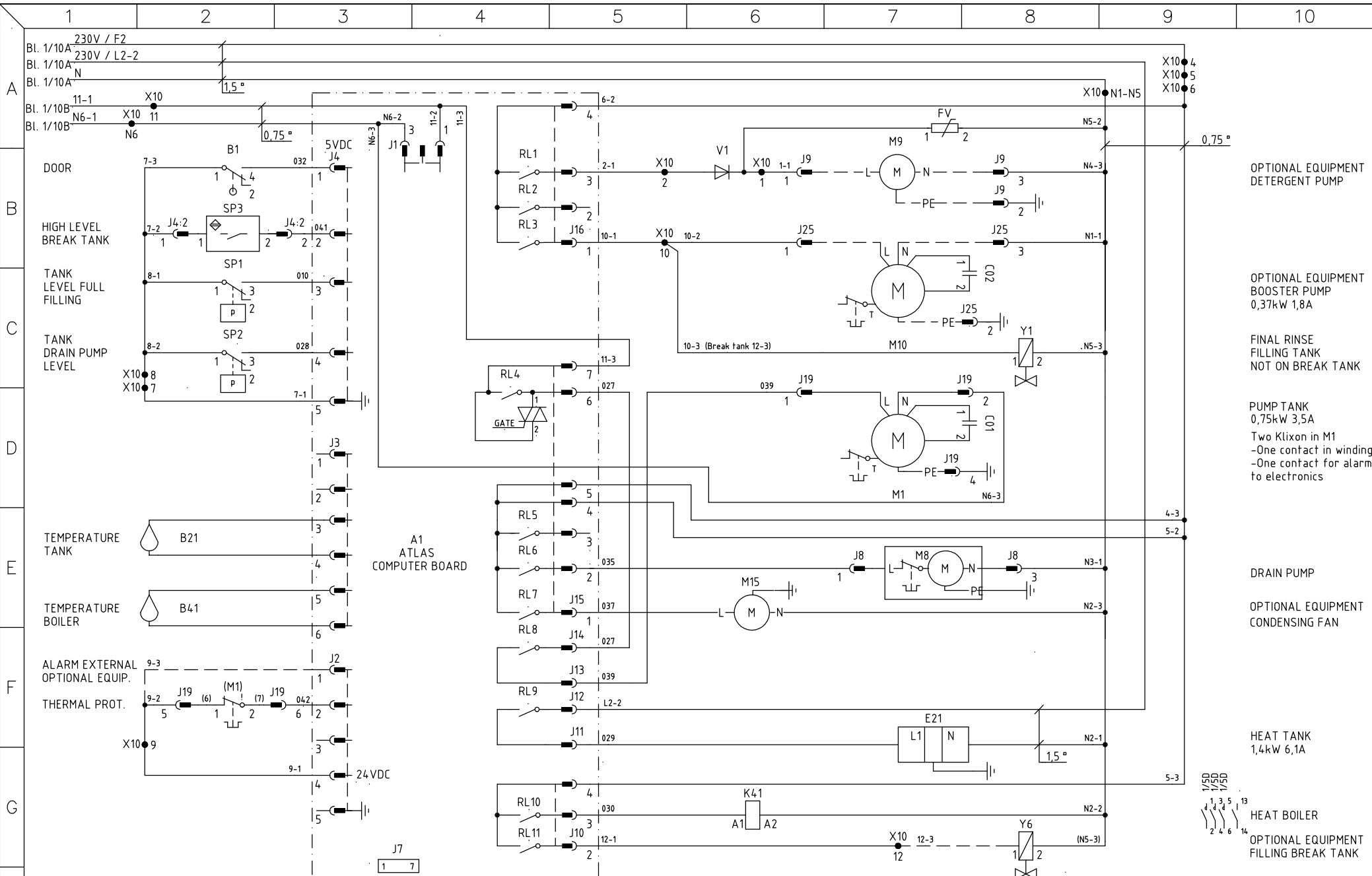
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DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
WD-4S A,G						131121	
400V/3N/50Hz_230V/1N/50Hz		REG.	DESIGN	DRAWN	APPR.	SHEET	
EL. MAIN CIRCUIT DIAGRAM			AA	AA	DS	1	
		DRAWING NO		REV.		CONT.	
		E56874		7		2	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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13/11/2014-56

Experiment-02.dwg



OPTIONAL EQUIPMENT  
DETERGENT PUMP

OPTIONAL EQUIPMENT  
BOOSTER PUMP  
0,37kW 1,8A

FINAL RINSE  
FILLING TANK  
NOT ON BREAK TANK

PUMP TANK  
0,75kW 3,5A  
Two Klixon in M1  
-One contact in winding  
-One contact for alarm  
to electronics

DRAIN PUMP

OPTIONAL EQUIPMENT  
CONDENSING FAN

HEAT TANK  
1,4kW 6,1A

HEAT BOILER  
OPTIONAL EQUIPMENT  
FILLING BREAK TANK

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
3	SKIFTAT RL10 OCH RL8	AA/DS	150218	2	M1, M10, RELÄ K1.	AA/DS	150128
6	MATNING TILL E21	AA/DS	150618				



DESIGNATION  
WD-4S A,G  
400V/3N/50Hz\_230V/1N/50Hz  
EL. CONTROL CIRCUIT DIAGR

FROM MACHINE	TO MACHINE		DATE	
REG.	DESIGN AA	DRAWN AA	APPR. DS	SHEET 2
	DRAWING NO E56874		REV. 7	CONT. 3

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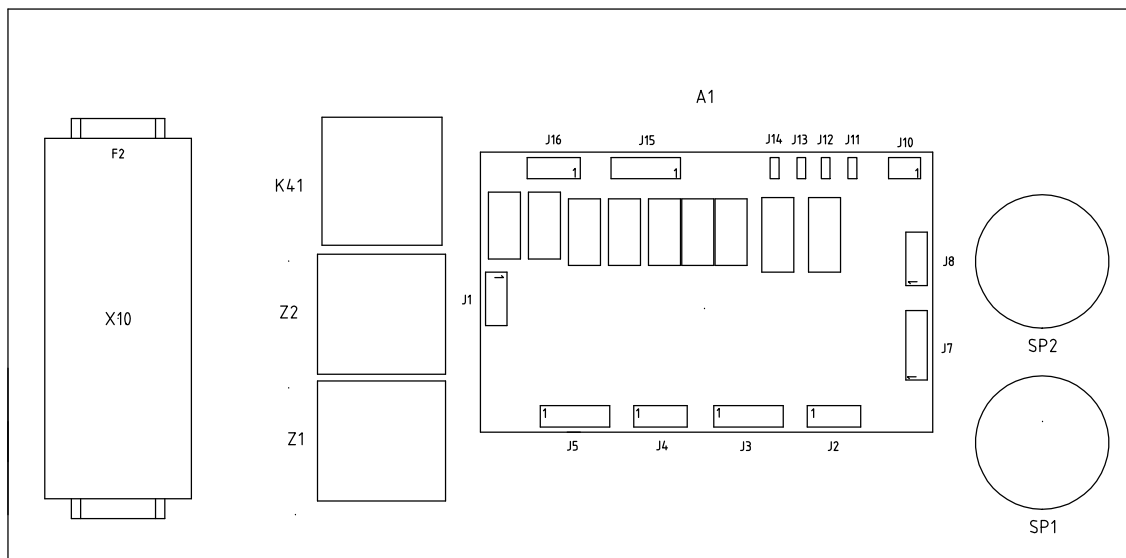
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Experiment-03.dwg 13/11/15 12:06

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
				5	SP1 och SP2 skiftat plats	AA/DS	150428

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874		7	-	

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 151008 REV. 7

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC-BLOCK	RAST5	-	3-POL	0864106700	INARCA NR	
J10	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	
J25	3	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		4-POL PANEL MOUNT	61050703		
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J19	5	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		6-POL, PANEL MOUNT	61026682		
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	7-POL	0864157700	INARCA NR	
J16	3	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	4-POL	0864152700	INARCA NR	



## EL. COMPONENT LIST

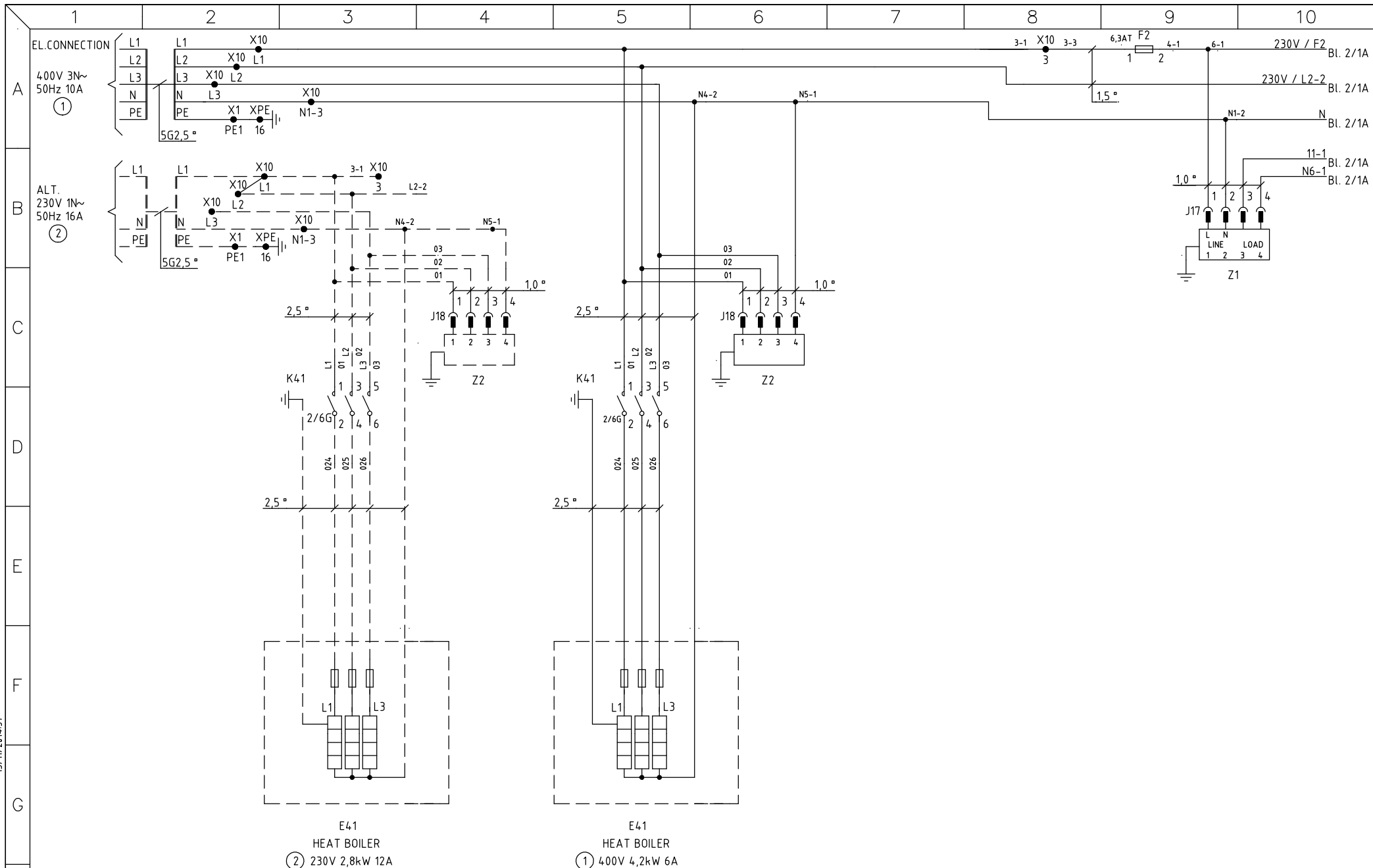
TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 151008 REV. 7

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J17	4	SOCKET	RAST 5	INARCA	-	61055751		
	2	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J18	4	SOCKET	RAST 5	INARCA	-	61055751		
	1	REC.BLOCK	RAST 5	INARCA	4-POL	6450388700	INARCA NR	
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	6-POL.	0864156700	INARCA NR	
J4	5	SOCKET	RAST5	INARCA	1-POL	0011341101	INARCA NR	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700	INARCA NR	
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55 °C	63702300	-	
SP1	1	LEVEL SWITCH	ELBI	50/20 GP	16(4)A 250V GOULD	733.0113	-	7
SP2	1	LEVEL SWITCH	ELBI	95/70 GP	16(4)A 250V GOULD	733.0112	-	7
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		
Z1	1	FILTER	PROCOND ELETTRON	411142410D	230V 1N 50Hz 10A 40 °C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRON	411135901D	250V 3N 50Hz	65005255	-	

# EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 151008 REV. 7

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		
X10	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	BACKER	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	BACKER	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 3,5A IP20	805.2670D	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660D	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310		
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
M15	1	FAN MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	738.2026	OPTION	
SP3	1	LEVEL SW.	OEM	03.081.00 125MM	10W/0,5A/100V	733,0515	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230		
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	



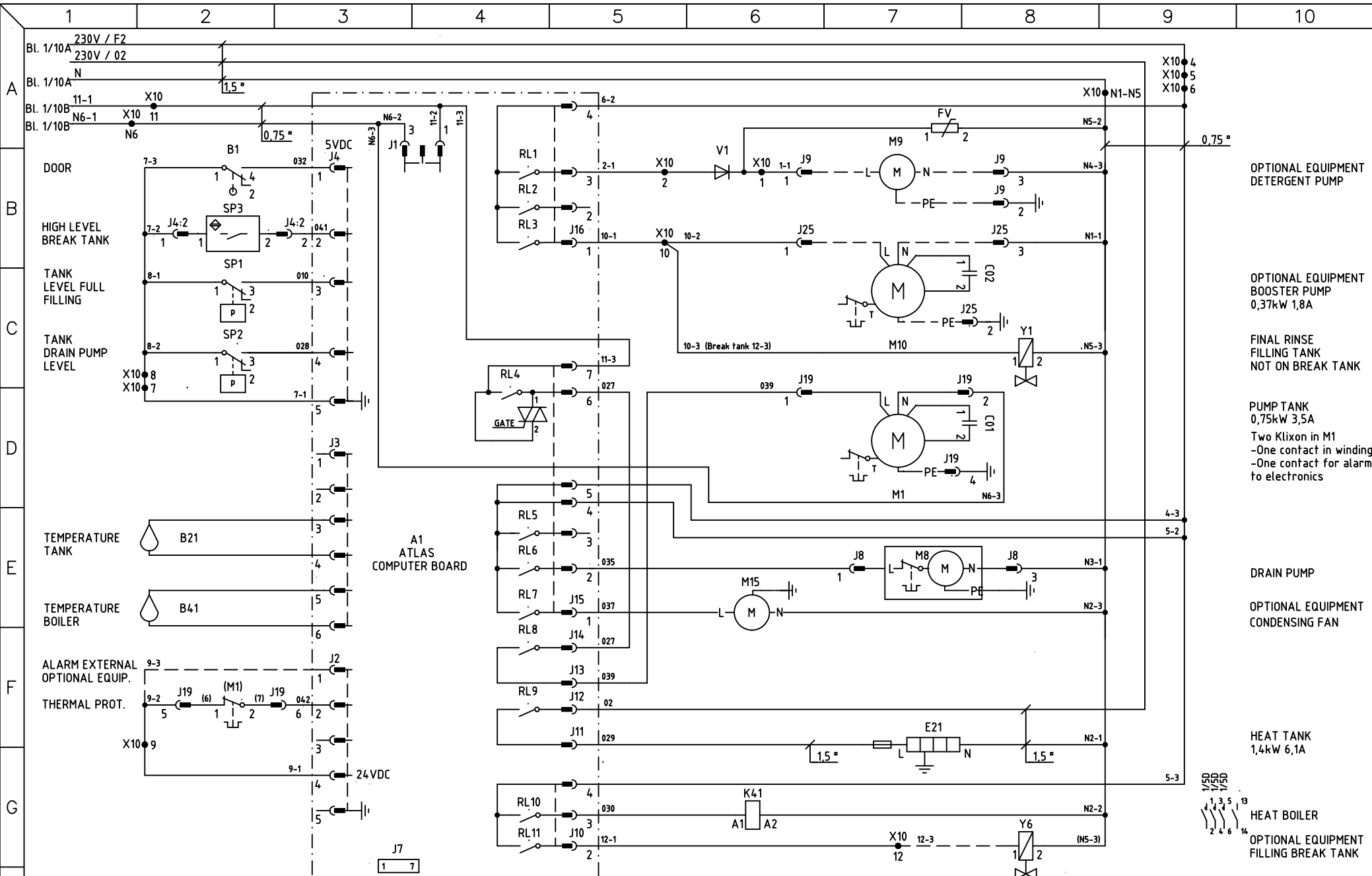
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NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
8	KABELAREA Z1+Z2	AA/DS	151028	8	KABELAREA Z1+Z2	AA/DS	151028
6	MATNING TILL E21	AA/DS	150618	6	MATNING TILL E21	AA/DS	150618
4	Z1 FLYTTAD FRÅN BL.2	AA/DS	150401	4	Z1 FLYTTAD FRÅN BL.2	AA/DS	150401

DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
WD-4S A,G						131121	
400V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN		APPR.	
EL. MAIN CIRCUIT DIAGRAM				AA		DS	
		DRAWING NO		REV.		CONT.	
		E56874		8		2	

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Experiment-02.dwg



OPTIONAL EQUIPMENT  
DETERGENT PUMP

OPTIONAL EQUIPMENT  
BOOSTER PUMP  
0,37kW 1,8A

FINAL RINSE  
FILLING TANK  
NOT ON BREAK TANK

PUMP TANK  
0,75kW 3,5A  
Two Klixon in M1  
-One contact in winding  
-One contact for alarm  
to electronics

DRAIN PUMP

OPTIONAL EQUIPMENT  
CONDENSING FAN

HEAT TANK  
1,4kW 6,1A

HEAT BOILER  
OPTIONAL EQUIPMENT  
FILLING BREAK TANK

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
6	MATNING TILL E21	AA/DS	150618	3	SKIFTAT RL10 OCH RL8	AA/DS	150218
				2	M1, M10, RELÄ K1.	AA/DS	150128



DESIGNATION  
WD-4S A,G  
400V/3N/50Hz\_230V/1N/50Hz  
EL. CONTROL CIRCUIT DIAGR

FROM MACHINE	TO MACHINE	DATE
REG.	DESIGN AA DRAWN AA	131121 APPR. DS SHEET 2
	DRAWING NO E56874	REV. 8 CONT. 3



## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 151104 REV. 8

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	61001370		8
	1	REC-BLOCK	RAST5	-	3-POL	61001373		8
J10	4	SOCKET	RAST5	INARCA	1-POL	61001370		8
	1	REC.BLOCK	RAST5	-	4-POL	61001374		8
J25	3	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		4-POL PANEL MOUNT	61050703		
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J19	5	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		6-POL, PANEL MOUNT	61026682		
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	61001370		8
	1	REC.BLOCK	RAST5	-	7-POL	61001377		8
J16	3	SOCKET	RAST5	INARCA	1-POL	61001370		8
	1	REC.BLOCK	RAST5	-	4-POL	61001374		8

**EL. COMPONENT LIST**

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 151104 REV. 8

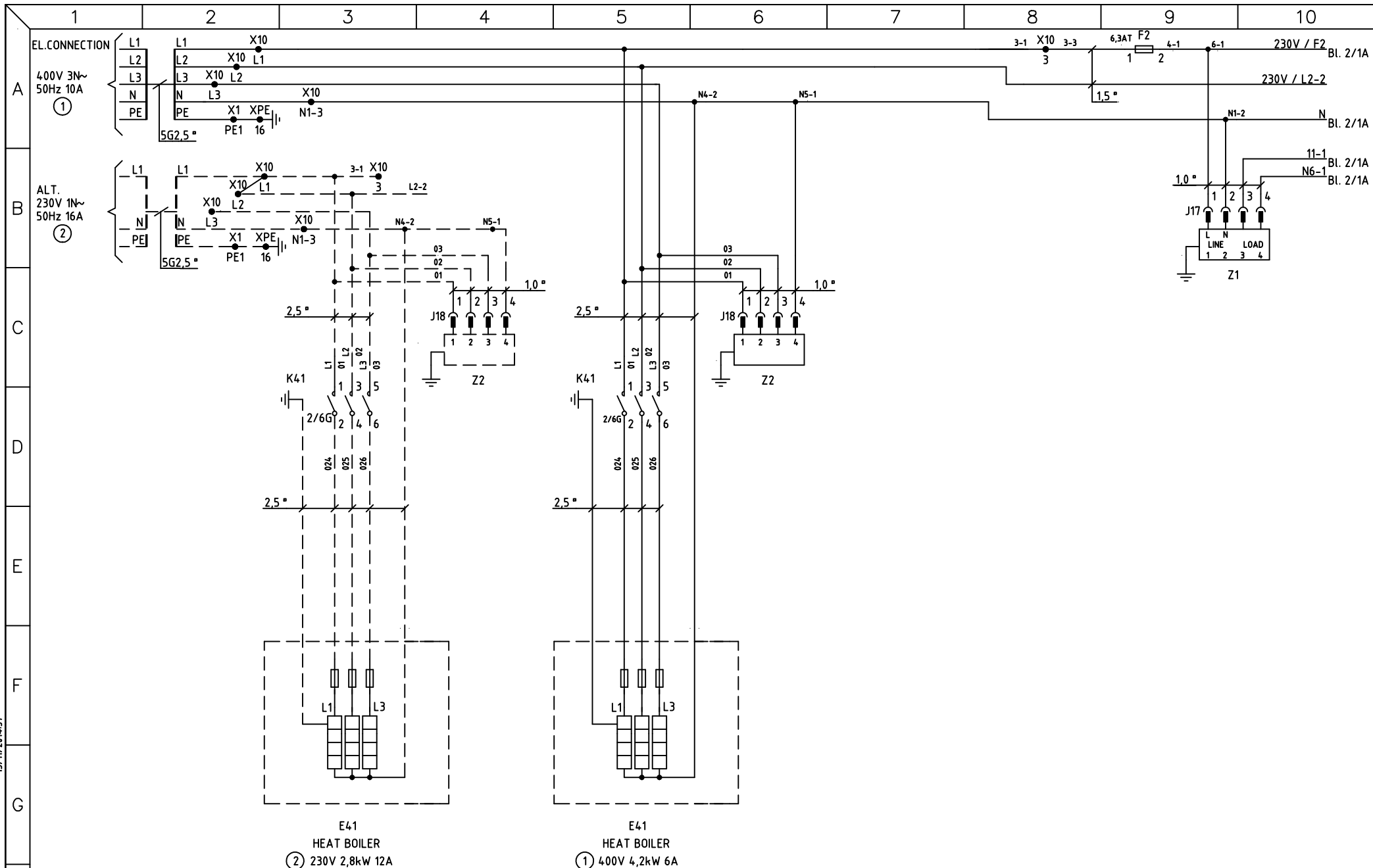
Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J17	1	REC.BLOCK	AMP	TE CONNECTIVITY	MK 4POS 1534072-4	61001360		8
J18	1	REC.BLOCK	AMP	TE CONNECTIVITY	MK 4POS 1534072-4	61001360		8
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101	-	
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	61001370		8
	1	REC.BLOCK	RAST5	-	6-POL.	61001376		8
J4	5	SOCKET	RAST5	INARCA	1-POL	61001370		8
	1	REC.BLOCK	RAST5	-	5-POL	61001375		8
J4:2	2	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893	-	
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55°C	63702300	-	
SP1	1	LEVEL SWITCH	ELBI	50/20 GP	16(4)A 250V GOULD	733.0113	-	
SP2	1	LEVEL SWITCH	ELBI	95/70 GP	16(4)A 250V GOULD	733.0112	-	
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		
Z1	1	FILTER	PROCOND ELETTRO	411142410D	230V 1N 50Hz 10A 40°C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRO	411135901D	250V 3N 50Hz	65005255	-	
X10	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		

**EL. COMPONENT LIST**

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 151104 REV. 8

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
X10	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106	-	
E21	1	ELECTRIC HEATER	BACKER	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	BACKER	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 3,5A IP20	805.2670D	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660D	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,4kW 0,25A	735.0310		
M9	1	PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
M15	1	FAN MOTOR	EMBPA BST	QL3/2000-2112	230V 50Hz 8W 89mA	738.2026	OPTION	
SP3	1	LEVEL SW.	OEM	03.081.00 125MM	10W/0,5A/100V	733,0515	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230		
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	





E41  
HEAT BOILER  
② 230V 2,8kW 12A

E41  
HEAT BOILER  
① 400V 4,2kW 6A

--- = EXTRA EQUIPMENT

8	KABELAREA Z1 + Z2	AA/DS	151102
6	MATNING TILL E21	AA/DS	150618
4	Z1 FLYTTAD FRÅN BL.2	AA/DS	150401



DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
WD-4S A,G						131121	
400V/3N/50Hz_230V/1N/50Hz		REG.	DESIGN	DRAWN	APPR.	SHEET	
EL. MAIN CIRCUIT DIAGRAM			AA	AA	DS	1	
		DRAWING NO			REV.	CONT.	
		E56874			9	2	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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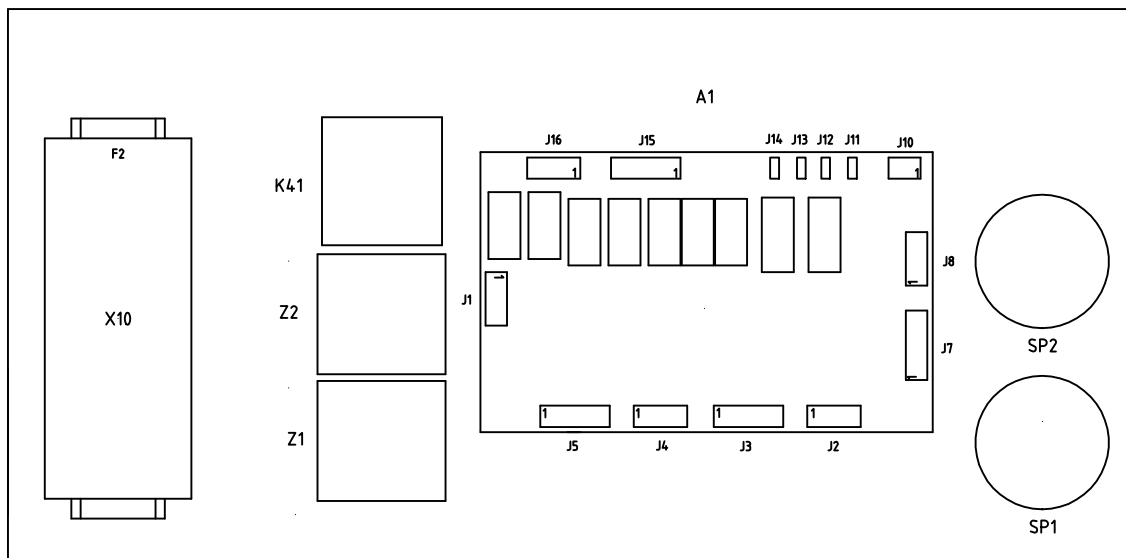
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Experiment-03.dwg 13/11/15 12:06

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
				5	SP1 och SP2 skiftat plats	AA/DS	150428

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						131121	
	400V/3N/50Hz_230V/1N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56874		9	-	

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 160422 REV. 9

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD	DEC	ATLAS		61104000	-	
A2	1	DISPLAY BOARD	DEC	ATLAS		61104100	-	
A2		DISPLAY BOARD	DEC	ATLAS		61104500	RHIMA	
C01	1	CAPACITOR	DUCATI ENERGIA		16 $\mu$ F $\pm$ 5% 425/475V P2	805.2671		
C02	1	CAPACITOR	DUCATI ENERGIA		10 $\mu$ F $\pm$ 5% 425/475V P2	805.2661		
F2	1	FUSE	AHLSSELL	5x20	CERAMIC 6,3AT	52029934		
	1	FUSEHOLDER	PHOENIX	UK 5-HESI N 3000539	500V 6,3A	62231268		
FV	1	VARISTOR	SIEMENS	S10V-S14K250	250V	61514250	-	
J1	2	SOCKET	RAST5	INARCA	1-POL	61001370		
	1	REC-BLOCK	RAST5	-	3-POL	61001373		
J10	4	SOCKET	RAST5	INARCA	1-POL	61001370		
	1	REC.BLOCK	RAST5	-	4-POL	61001374		
J25	3	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		4-POL PANEL MOUNT	61050703		
J11	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J12	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J19	5	SOCKET	AMP		-	61026893	-	
	1	REC.BLOCK	UMNL		6-POL, PANEL MOUNT	61026682		
J13	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J14	1	SOCKET	ELPRESS	FL- ISOL	-	50871528	-	
J15	6	SOCKET	RAST5	INARCA	1-POL	61001370		
	1	REC.BLOCK	RAST5	-	7-POL	61001377		

## EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz  
 REM: 160422 REV. 9

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
J16	3	SOCKET	RAST5	INARCA	1-POL	61001370		
	1	REC.BLOCK	RAST5	-	4-POL	61001374		
J17	1	REC.BLOCK	AMP	TE CONNECTIVITY	MK 4POS 1534072-4	61001360		
J18	1	REC.BLOCK	AMP	TE CONNECTIVITY	MK 4POS 1534072-4	61001360		
J2	2	SOCKET	RAST5	INARCA	1-POL	0011341101		
	1	REC.BLOCK	RAST5	-	5-POL	0864094700		
J3	4	SOCKET	RAST5	INARCA	1-POL	61001370		
	1	REC.BLOCK	RAST5	-	6-POL.	61001376		
J4	5	SOCKET	RAST5	INARCA	1-POL	61001370		
	1	REC.BLOCK	RAST5	-	5-POL	61001375		
J4:2	2	SOCKET	AMP	-	-	61026893		
	1	BLOCK	AMP	-	2-POL	61080699		
J8	3	SOCKET	AMP	-	-	61026893		
	1	BLOCK	UMNL	-	3-POL	716.0520		
J9	3	SOCKET	AMP	-	-	61026893		
	1	BLOCK	UMNL	-	3-POL	716.0520		
K41	1	MINI.CONTACTOR	ABB	B6-30-10	230V AC-1:16A 55°C	63702300		
SP1	1	LEVEL SWITCH	ELBI	50/20 GP	16(4)A 250V GOULD	733.0113		
SP2	1	LEVEL SWITCH	ELBI	95/70 GP	16(4)A 250V GOULD	733.0112		
V1	1	DIODE	SWEDISH RADIO S	1N4007	1000V/1,0A	ACS121309		

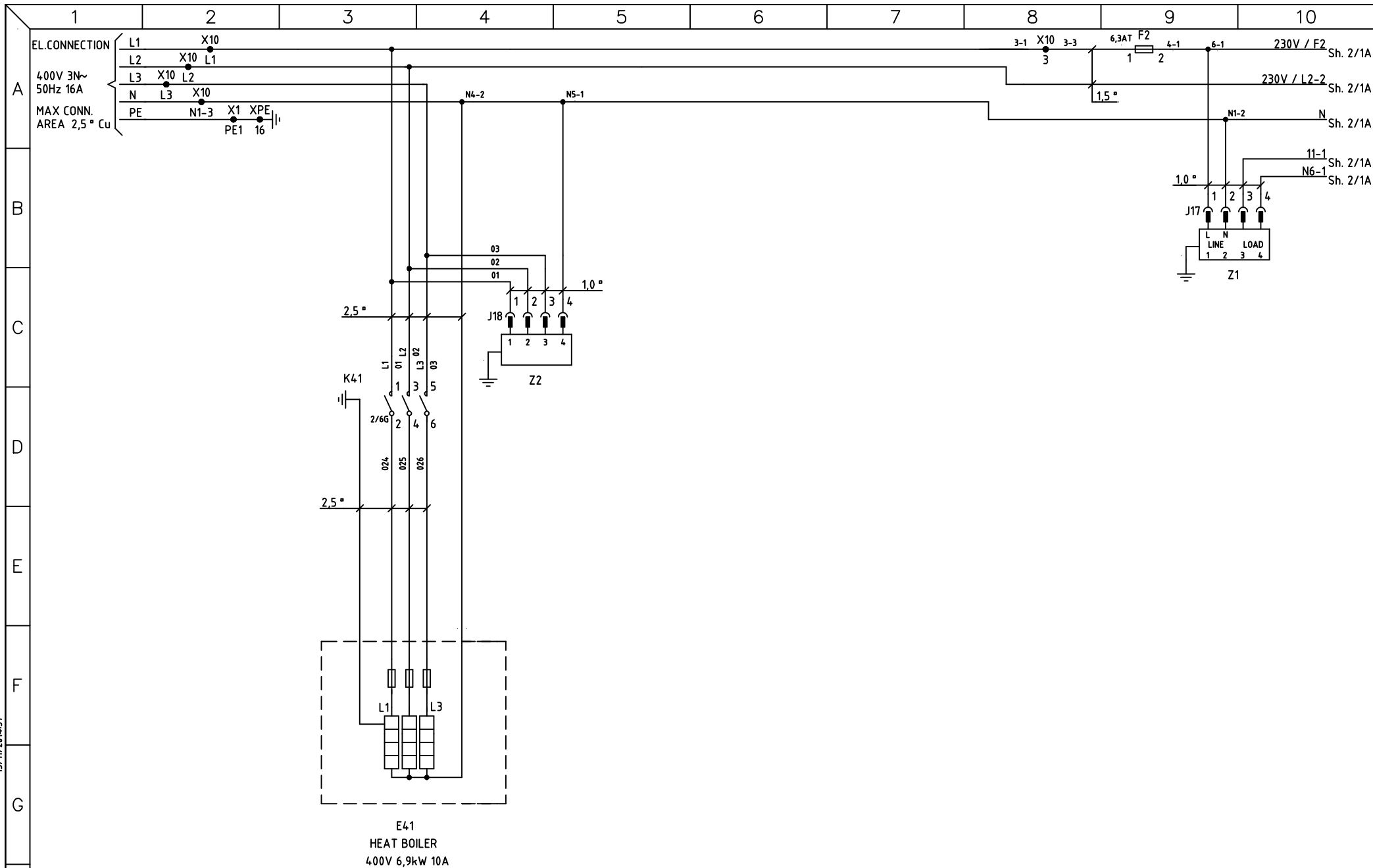
# EL. COMPONENT LIST

TYPE: 400V/3N/50Hz\_230V/1N/50Hz

REM: 160422 REV. 9

Pos	No.	Designation	Manufacturer	Type	Data	WD number	Note	Rev.
Z1	1	FILTER	PROCOND ELETTRO	411142410D	230V 1N 50Hz 10A 40°C	65005256	-	
Z2	1	FILTER	PROCOND ELETTRO	411135901D	250V 3N 50Hz	65005255	-	
X10	14	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231241		
X10	6	CONN.BLOCK	PHOENIX	3031241 ST2,5-TWIN	800V 28A MAX 4MM	62231254		
X10	1	CONN.BLOCK	PHOENIX	EARTH TERMINAL ST	800V 28A MAX 4MM	62231267		
	1	PLUG-IN BRIDGE	PHOENIX	FSB3030161	5,20mm 24A	62230161	OPTION	
B1	1	LIMIT SWITCH	OEM	831613AN	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106A	-	
B41	1	TEMP. SENSOR	GADELIUS	PX2M-42H	-	610.0106A	-	
E21	1	ELECTRIC HEATER	BACKER	-	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	BACKER	-	4200W/230/400V	306544.01	-	
M1	1	PUMP MOTOR	OLYMPIA PUMPS	L80.T100_4540 230 1N	0,75kW 3,5A IP20	805.2670D	-	
M10	1	PUMP MOTOR	OLYMPIA PUMPS	R71.T5Q.PRS 230 1N	0,37kW 1,8A IP20	805.2660D	OPTION	
M8	1	PUMP MOTOR	HANNING	DPS35-008	0,04kW 0,25A	735.0310		
M9		PUMP MOTOR	GRI	14825	230V/0,18A/24W	716.0501	OPTION	
M9	1	PUMP MOTOR	SEKO	HRPP	100-240VAC/50-60Hz 8W	716.0440	OPTION	9
M15	1	FAN MOTOR	EMBPABST	QL3/2000-2112	230V 50Hz 8W 89mA	738.2026	OPTION	
SP3	1	LEVEL SW.	OEM	03.081.00 125MM	10W/0,5A/100V	733,0515	OPTION	
Y1	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230		
Y6	1	SOLENOID VALVE	COMPRIMÉ COMP	R157	230V 50-60Hz	729.3230	OPTION	

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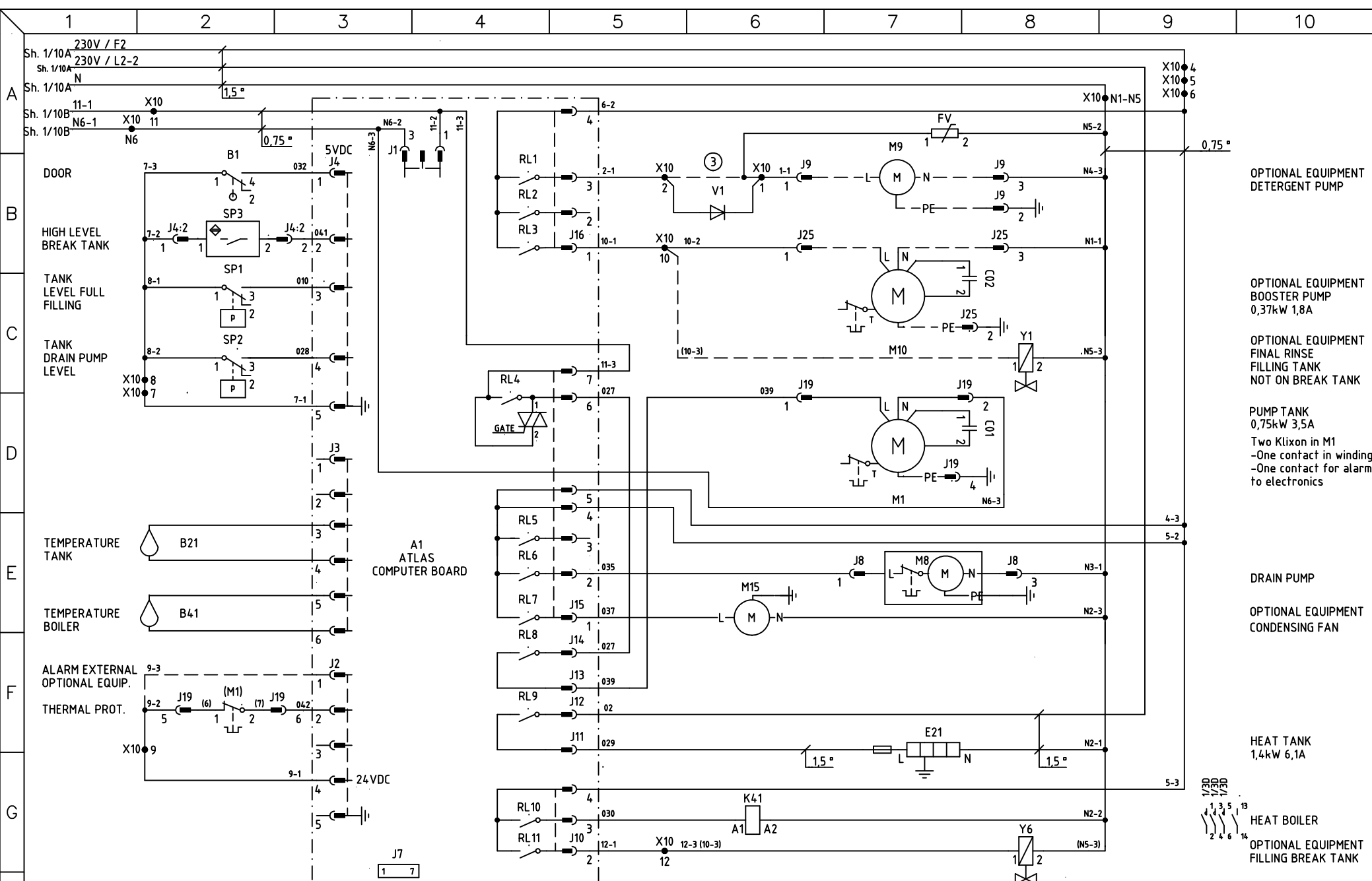
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NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						151208	
	400V/3N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. MAIN CIRCUIT DIAGRAM				AA	AA	DS	1	
				DRAWING NO		REV.		
				E56939		CONT.		
						2		

13/11/2014-56

Experiment-02.dwg



OPTIONAL EQUIPMENT  
DETERGENT PUMP

OPTIONAL EQUIPMENT  
BOOSTER PUMP  
0,37kW 1,8A

OPTIONAL EQUIPMENT  
FINAL RINSE  
FILLING TANK  
NOT ON BREAK TANK

PUMP TANK  
0,75kW 3,5A  
Two Klixon in M1  
-One contact in winding  
-One contact for alarm  
to electronics

DRAIN PUMP

OPTIONAL EQUIPMENT  
CONDENSING FAN

HEAT TANK  
1,4kW 6,1A

HEAT BOILER  
OPTIONAL EQUIPMENT  
FILLING BREAK TANK

③ DETERGENT EQUIPMENT  
PERISTALTIC DOSING PUMP "SEKO"  
ADD A 2-POLE PLUG-IN BRIDGE  
BETWEEN TERMINAL BLOCK  
X10-1 AND X10-2.

DISPLAY  
A2

		DESIGNATION		WD-4S		A,G		FROM MACHINE		TO MACHINE		DATE	
		400V/3N/50Hz		EL. CONTROL CIRCUIT DIAGR		REG.		DESIGN AA		DRAWN AA		APPR. DS	
								DRAWING NO		REV.		CONT.	
								E56939				3	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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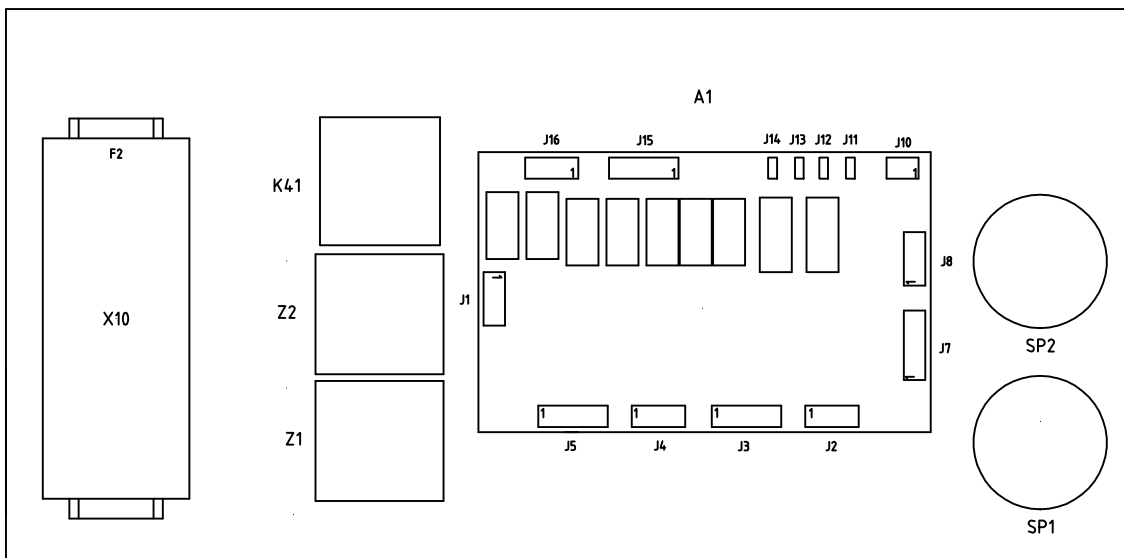
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Experiment-03.dwg 13/11/15 12:06

	DESIGNATION		FROM MACHINE		TO MACHINE		DATE	
	WD-4S A,G						151208	
	400V/3N/50Hz		REG.		DESIGN	DRAWN	APPR.	SHEET
EL. CONTROL CIRCUIT DIAGR				AA	AA	DS	3	
				DRAWING NO		REV.	CONT.	
				E56939			-	

NO.	CHANGE	SIGN.	DATE	NO.	CHANGE	SIGN.	DATE
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# EL. COMPONENT LIST

TYPE: 400V/3N/50Hz 6,9kW

REM: 151217

Pos	No.	Designation	Data	WD number	Note	Rev.
A1	1	COMPUTER BOARD		61104000	-	
A2	1	DISPLAY BOARD		61104100	-	
C01	1	CAPACITOR	16 $\mu$ F $\pm$ 5% 425/475V P2	805.2671		
C02	1	CAPACITOR	10 $\mu$ F $\pm$ 5% 425/475V P2	805.2661		
F2	1	FUSEHOLDER	500V 6,3A	62231268		
FV	1	VARISTOR	250V	61514250	-	
J1	2	SOCKET	1-POL	61001370		
	1	REC-BLOCK	3-POL	61001373		
J10	4	SOCKET	1-POL	61001370		
	1	REC.BLOCK	4-POL	61001374		
J25	3	SOCKET	-	61026893	-	
	1	REC.BLOCK	4-POL PANEL MOUNT	61050703		
J11	1	SOCKET	-	50871528	-	
J12	1	SOCKET	-	50871528	-	
J19	5	SOCKET	-	61026893	-	
	1	REC.BLOCK	6-POL, PANEL MOUNT	61026682		
J13	1	SOCKET	-	50871528	-	
J14	1	SOCKET	-	50871528	-	
J15	6	SOCKET	1-POL	61001370		
	1	REC.BLOCK	7-POL	61001377		
J16	3	SOCKET	1-POL	61001370		

# EL. COMPONENT LIST

TYPE: 400V/3N/50Hz 6,9kW

REM: 151217

Pos	No.	Designation	Data	WD number	Note	Rev.
	1	REC.BLOCK	4-POL	61001374		
J17	1	REC.BLOCK	MK 4POS 1534072-4	61001360		
J18	1	REC.BLOCK	MK 4POS 1534072-4	61001360		
J2	2	SOCKET	1-POL	0011341101	-	
	1	REC.BLOCK	5-POL	0864094700		
J3	4	SOCKET	1-POL	61001370		
	1	REC.BLOCK	6-POL.	61001376		
J4	5	SOCKET	1-POL	61001370		
	1	REC.BLOCK	5-POL	61001375		
J4:2	2	SOCKET	-	61026893	-	
	1	BLOCK	2-POL	61080699		
J8	3	SOCKET	-	61026893	-	
	1	BLOCK	3-POL	716.0520		
J9	3	SOCKET	-	61026893	-	
	1	BLOCK	3-POL	716.0520		
K41	1	MINI.CONTACTOR	230V AC-1:16A 55°C	63702300	-	
SP1	1	LEVEL SWITCH	16(4)A 250V GOULD	733.0113	-	
SP2	1	LEVEL SWITCH	16(4)A 250V GOULD	733.0112	-	
V1	1	DIODE	1000V/1,0A	ACS121309		
Z1	1	FILTER	230V 1N 50Hz 10A 40°C	65005256	-	
Z2	1	FILTER	250V 3N 50Hz	65005255	-	

# EL. COMPONENT LIST

TYPE: 400V/3N/50Hz 6,9kW

REM: 151217

Pos	No.	Designation	Data	WD number	Note	Rev.
X10	14	CONN.BLOCK	800V 28A MAX 4MM	62231241		
X10	6	CONN.BLOCK	800V 28A MAX 4MM	62231254		
X10	1	CONN.BLOCK	800V 28A MAX 4MM	62231267		
	1	PLUG-IN BRIDGE	5,20mm 24A	62230161		
B1	1	LIMIT SWITCH	16A/4A/250VAC	60383161	-	
B21	1	TEMP. SENSOR	-	610.0106	-	
B41	1	TEMP. SENSOR	-	610.0106	-	
E21	1	ELECTRIC HEATER	1400W/230V	604.1815	-	
E41	1	EL.CARTRIDGE	6900W/230/400V	307225.01	-	
M1	1	PUMP MOTOR	0,75kW 3,5A IP20	805.2670D	-	
M10	1	PUMP MOTOR	0,37kW 1,8A IP20	805.2660D	OPTION	
M8	1	PUMP MOTOR	0,04kW 0,25A	735.0310		
M9		PUMP MOTOR	230V/0,18A/24W	716.0501	OPTION	
M9	1	PUMP MOTOR	100-240V/50-60Hz 8W	735.0401	OPTION	
M15	1	FAN MOTOR	230V 50Hz 8W 89mA	738.2026	OPTION	
SP3	1	LEVEL SW.	10W/0,5A/100V	733,0515	OPTION	
Y1	1	SOLENOID VALVE	230V 50-60Hz	729.3230		
Y6	1	SOLENOID VALVE	230V 50-60Hz	729.3230	OPTION	