ERGO 100

PCSCHEMATIC Automation

A/S WODSCHOW & Co.
Kirkebjerg Søpark 6
DK-2605 Brøndby, Denmark
www.bearvarimixer.dk

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DK-2605 Brøndby, Denmark
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Documentation Info

This electrical documentation fits ERGO 100
- ENG. version
- UL approval
- 3P, 200-240V

Notes

There will be several variants of charts like this:
1: With and without brakes
2: With and without transformer
3: UL or CE approvals

Further, it should be noted that there will be some old versions which will be phase objections along the way, this problem will this be rectified.

Revision descriptions

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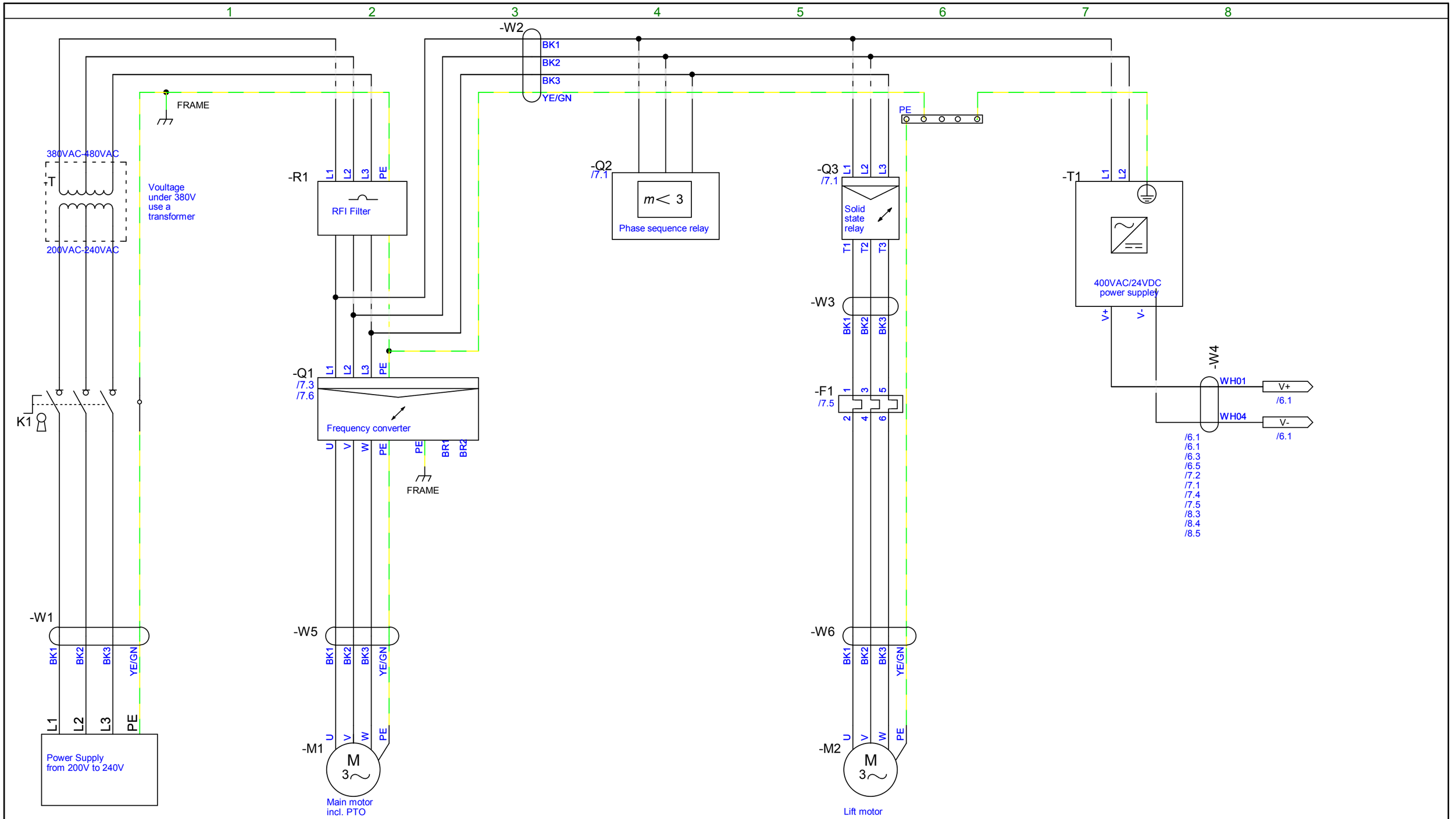
Diagram



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1 2 3 4 5 6 7 8

-K1
/7.1
/8.1

Front panel print VL-4

J8 J8 J1 J1 J1 J1 J1 J1 J1 J1 J2 J2 J2 J2 J2 J2 J2 J2

-R2
/7.1
/8.3

-W4
/5.8
WH04 WH01

-W4
/5.8
BK17 RD18 BU19 GN20

-W4
/5.8
WH21 WH22 WH23 WH24

-W4
/5.8
WH15 WH16 WH13 WH14 WH2 WH3 WH11 WH12

-K3
A1 A2 41 42 S33 S34 13 14

Safety relay

V-
/5.8

V+
/5.8

-X1 -X2 -X3 -X4

-W8
BK GN WH RD

S11 S22 S12 S21

-W9
YE RD

-W10
GN BK

-X8
-X5 -X6 -X7 -X9 -X10

-W11
BU BN BK GY

-W12
GY BK BN BU

-B1

-B2

Security magnet
Guard detection

Security magnet
Guard detection

-S1
1 2 1 2

Emergency switch

-S2
22 21 14 13

CE micro switch

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1 2 3 4 5 6 7 8

-K1
/6.1

Front panel print

-R2
/6.1

-W4
/5.8
WH5 WH7 WH6
J4 J4 J4

-X11 -X12 -X13

-W13
WH5 WH7 WH6

-Q2
/5.4
m< 3
24 22 14 12
Phase sequence relay
21 11

-W14
WH5 WH7

-Q3
/5.6
A1 A2 B2
Solid state relay

-W4
/5.8
BK48 RD47' WH52
J5 J5 J5
SHIELDED CABLE

-Q1
/5.2
5 4 3 2 1
TX TX/ RX RX/ 0V "COM"
Modbus modul

-W4
/5.8
WH43 WH44
J5 J5

-X14 -X15

-W15
Brown Blue

-M1
t°
PTO break

-W4
/5.8
WH41 WH42
J5 J5

-F1
/5.6
95 96
Motor protection
lift motor

-W4
GN39 BU40
J5 J5

-Q1
/5.2
SD1 SD2
Inverter Start
stop
Main Engine

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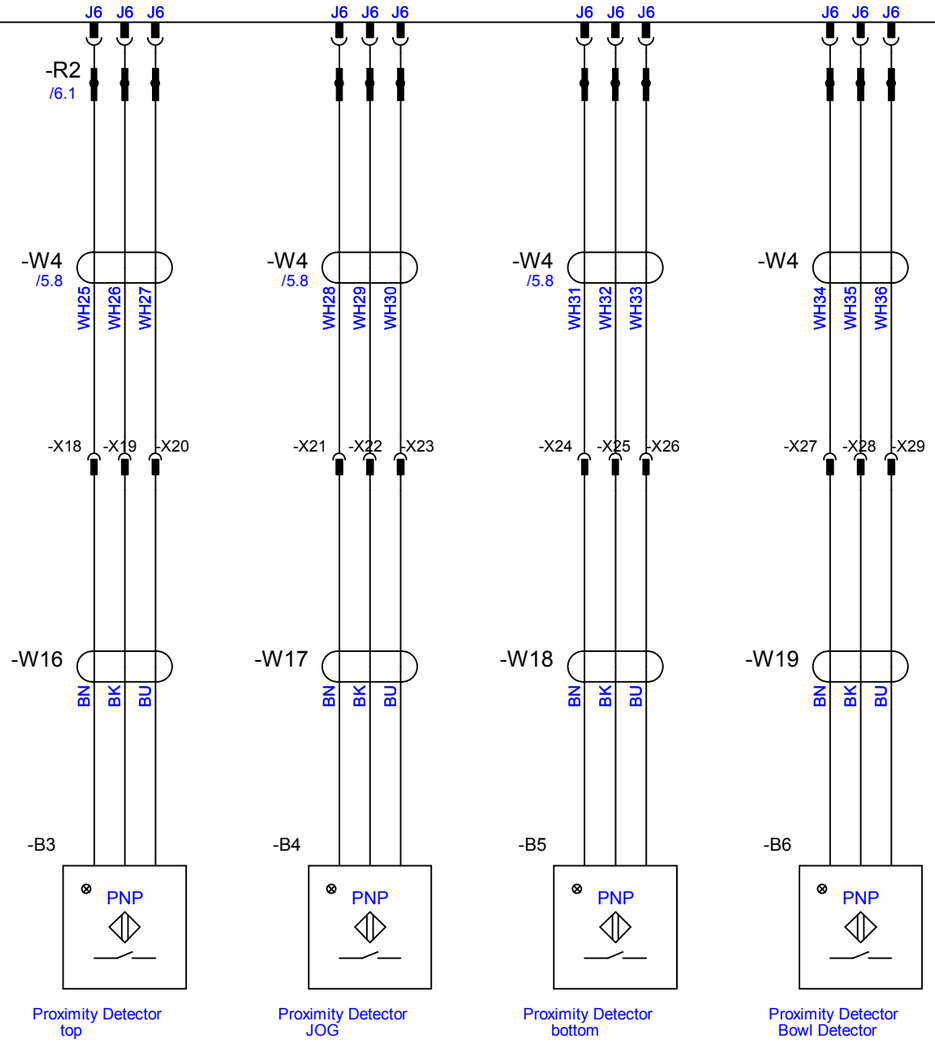
1 2 3 4 5 6 7 8

-K1
/6.1
/7.1

Front panel print



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Lists

Article no.	Type	Quantity
		1
AE140-86.1M	Magnet induktiv sensor	3
AE140-420	Safey relay	1
AE140-420.3	Solid state relay	1
AE140-420.4	Safety relay	1
AE140-430	3P, transformer 400/230 10 KVA CE	1
AE140-512M	Guard detection	2
AE140-561	Print for VL4 panel	1
AE140-601.1	RFI Filter	1
AE140-601.8	Permanent magnet	1
CE61-173.1M	Micro switch CE	1
CE61-174	Emergency in front panel	1
CE61-414	24VDC Power supply 400VSC/24VDC	1
CE61-420.4	Phase sequence relay	1
CE101-86Z	Lift motor	1
CE101-601	Inverter 4kW	1
R20E-501.7	Magnet induktiv sensor	1
WE61-194.1M	POWER	-
WE101-85	Main motor incl. PTO	1
WE140-542.5	24VDC main circuit cable	-

Article no.	Type	Quantity

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Component	Article	Type	Description	Position
				/5.6
-B1	AE140-512M	Guard detection		/6.6
-B2	AE140-512M	Guard detection		/6.7
-B3	AE140-86.1M	Magnet induktiv sensor		/8.3
-B4	AE140-86.1M	Magnet induktiv sensor		/8.4
-B5	AE140-86.1M	Magnet induktiv sensor		/8.5
-B6	R20E-501.7	Magnet induktiv sensor		/8.6
-F1	AE140-420.4	Safety relay		/5.6
-K1	AE140-561	Print for VL4 panel		/6.1
-K3	AE140-420	Safey relay		/6.5
-M1	WE101-85	Main motor incl. PTO		/5.2
-M2	CE101-86Z	Lift motor		/5.6
-Q1	CE101-601	Inverter 4kW		/5.2
-Q2	CE61-420.4	Phase sequence relay		/5.4
-Q3	AE140-420.3	Solid state relay		/5.6
-R1	AE140-601.1	RFI Filter		/5.2
-R2	AE140-601.8	Permanent magnet		/6.1
-S1	CE61-174	Emergency in front panel		/6.2
-S2	CE61-173.1M	Micro switch CE		/6.3
-T	AE140-430	3P, transformer 400/230 10 KVA CE		/5.1
-T1	CE61-414	24VDC Power supply 400VSC/24VDC		/5.7
-W1	WE61-194.1M	POWER		/5.1
-W4	WE140-542.5	24VDC main circuit cable		/5.8

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From			Cable		To			Type
POWER	L1	/5.1	**-W1**	BK1	K1	2	/5.1	POWER
POWER	L2	/5.1	**-W1**	BK2	K1	4	/5.1	POWER
POWER	L3	/5.1	**-W1**	BK3	K1	6	/5.1	POWER
POWER	PE	/5.1	**-W1**	YE/GN	K1	8	/5.1	POWER
-Q1	L1	/5.2	**-W2**	BK1	-Q2	A2	/5.4	Cable drive to electrical box
-Q1	L2	/5.2	**-W2**	BK2	-Q3	L2	/5.6	Cable drive to electrical box
-Q1	L3	/5.2	**-W2**	BK3	-Q3	L3	/5.6	Cable drive to electrical box
-R1	8	/5.2	**-W2**	YE/GN			/5.6	Cable drive to electrical box
-Q3	T1	/5.5	**-W3**	BK1	-F1	1	/5.5	Conductor
-Q3	T2	/5.6	**-W3**	BK2	-F1	3	/5.6	Conductor
-Q3	T3	/5.6	**-W3**	BK3	-F1	5	/5.6	Conductor
-R2	0	/6.1	**-W4**	BK17	-S1	1	/6.1	Conductor, emergency stop to the front panel
-R2	0	/6.2	**-W4**	BU19	-S1	1	/6.2	Conductor, emergency stop to the front panel
-R2	0	/6.2	**-W4**	GN20	-S1	2	/6.2	Conductor, emergency stop to the front panel
-R2	0	/6.2	**-W4**	RD18	-S1	2	/6.1	Conductor, emergency stop to the front panel
-R2	0	/7.3	**-W4**	BK48	-Q1	5	/7.3	Shielded cable
-R2	0	/7.3	**-W4**	RD47	-Q1	4	/7.3	Shielded cable
-R2	0	/7.3	**-W4**	WH52	-Q1	1	/7.3	Shielded cable
			-W4					Shielded cable
-R2	0	/7.6	**-W4**	BU40	-Q1	SD2	/7.6	Conductor
-R2	0	/7.6	**-W4**	GN39	-Q1	SD1	/7.6	Conductor
-R2	0	/6.6	**-W4**	WH2	-K3	S33	/6.6	Cable to safety relay
-R2	0	/6.7	**-W4**	WH3	-K3	S34	/6.7	Cable to safety relay
-R2	0	/6.7	**-W4**	WH11	-K3	13	/6.7	Cable to safety relay
-R2	0	/6.7	**-W4**	WH12	-K3	14	/6.7	Cable to safety relay

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DK-2605 Brøndby, Denmark
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From			Cable		To			Type
-R2	0	/6.6	**-W4**	WH13	-K3	41	/6.6	Cable to safety relay
-R2	0	/6.6	**-W4**	WH14	-K3	42	/6.6	Cable to safety relay
-R2	0	/6.5	**-W4**	WH15	-K3	A1	/6.5	Cable to safety relay
-R2	0	/6.6	**-W4**	WH16	-K3	A2	/6.6	Cable to safety relay
-R2	0	/7.1	**-W4**	WH5	-X11	0	/7.1	
-R2	0	/7.1	**-W4**	WH6	-X13	0	/7.1	
-R2	0	/7.1	**-W4**	WH7	-X12	0	/7.1	
-T1	V+	/5.7	**-W4**	WH01	-R2	0	/6.1	24VDC main circuit cable
			-W4	WH04	-R2	0	/6.1	24VDC main circuit cable
-R2	0	/6.3	**-W4**	WH21	-X1	0	/6.3	Cable micro switch
-R2	0	/6.4	**-W4**	WH22	-X2	0	/6.4	Cable micro switch
-R2	0	/6.4	**-W4**	WH23	-X3	0	/6.4	Cable micro switch
-R2	0	/6.4	**-W4**	WH24	-X4	0	/6.4	Cable micro switch
-R2	0	/8.3	**-W4**	WH25	-X18	0	/8.3	Cable PNP top
-R2	0	/8.3	**-W4**	WH26	-X19	0	/8.3	Cable PNP top
-R2	0	/8.3	**-W4**	WH27	-X20	0	/8.3	Cable PNP top
-R2	0	/8.4	**-W4**	WH28	-X21	0	/8.4	Cable PNP JOG
-R2	0	/8.4	**-W4**	WH29	-X22	0	/8.4	Cable PNP JOG
-R2	0	/8.4	**-W4**	WH30	-X23	0	/8.4	Cable PNP JOG
-R2	0	/8.5	**-W4**	WH31	-X24	0	/8.5	Cable PNP bund
-R2	0	/8.5	**-W4**	WH32	-X25	0	/8.5	Cable PNP bund
-R2	0	/8.5	**-W4**	WH33	-X26	0	/8.5	Cable PNP bund
-R2	0	/8.6	**-W4**	WH34	-X27	0	/8.6	Cable PNP Bowl
-R2	0	/8.6	**-W4**	WH35	-X28	0	/8.6	Cable PNP Bowl
-R2	0	/8.6	**-W4**	WH36	-X29	0	/8.6	Cable PNP Bowl
-R2	0	/7.5	**-W4**	WH41	-F1	95	/7.5	Cable termoe relay
-R2	0	/7.5	**-W4**	WH42	-F1	96	/7.5	Cable termoe relay
-R2	0	/7.4	**-W4**	WH43	-X14	0	/7.4	Cable to PTO

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Kirkebjerg Søpark 6
DK-2605 Brøndby, Denmark
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From			Cable		To			Type
-R2	0	/7.4	**-W4**	WH44	-X15	0	/7.4	Cable to PTO
-Q1	U	/5.2	**-W5**	BK1	-M1	U	/5.2	Cable main motor
-Q1	V	/5.2	**-W5**	BK2	-M1	V	/5.2	Cable main motor
-Q1	W	/5.2	**-W5**	BK3	-M1	W	/5.2	Cable main motor
-Q1	PE	/5.2	**-W5**	YE/GN	-M1	PE	/5.2	Cable main motor
-F1	2	/5.5	**-W6**	BK1	-M2	U	/5.5	Cable for lift motor
-F1	4	/5.6	**-W6**	BK2	-M2	V	/5.6	Cable for lift motor
-F1	6	/5.6	**-W6**	BK3	-M2	W	/5.6	Cable for lift motor
		/5.6	**-W6**	YE/GN	-M2	PE	/5.6	Cable for lift motor
-X1	0	/6.3	**-W8**	BK	-S2	22	/6.3	Cable micro switch
-X2	0	/6.4	**-W8**	GN	-S2	21	/6.3	Cable micro switch
-X4	0	/6.4	**-W8**	RD	-S2	13	/6.4	Cable micro switch
-X3	0	/6.4	**-W8**	WH	-S2	14	/6.4	Cable micro switch
-K3	S22	/6.6	**-W9**	RD	-X6	0	/6.6	Conductor
-K3	S11	/6.6	**-W9**	YE	-X5	0	/6.6	Conductor
-K3	S21	/6.7	**-W10**	BK	-X10	0	/6.7	Conductor
-K3	S12	/6.7	**-W10**	GN	-X9	0	/6.7	Conductor
-X8	0	/6.6	**-W11**	BK	-B1	3	/6.6	Cable bowl detection
-X6	0	/6.6	**-W11**	BN	-B1	2	/6.6	Cable bowl detection
-X5	0	/6.6	**-W11**	BU	-B1	1	/6.6	Cable bowl detection
-X7	0	/6.6	**-W11**	GY	-B1	4	/6.6	Cable bowl detection

A/S WODSCHOW & Co.
Kirkebjerg Søpark 6
DK-2605 Brøndby, Denmark
www.bearvarimixer.dk

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From			Cable		To			Type
-X8	0	/6.6	**-W12**	BK	-B2	2	/6.7	Cable bowldetection
-X9	0	/6.7	**-W12**	BN	-B2	3	/6.7	Cable bowldetection
-X10	0	/6.7	**-W12**	BU	-B2	4	/6.7	Cable bowldetection
-X7	0	/6.6	**-W12**	GY	-B2	1	/6.7	Cable bowldetection
-X11	0	/7.1	**-W13**	WH5	-Q2	12	/7.1	Conductor
-X13	0	/7.1	**-W13**	WH6	-Q3	B2	/7.1	Conductor
-X12	0	/7.1	**-W13**	WH7	-Q2	14	/7.1	Conductor
-Q2	21	/7.1	**-W14**	WH5	-Q3	A1	/7.1	Conductor
-Q2	11	/7.1	**-W14**	WH7	-Q3	A2	/7.1	Conductor
-X15	0	/7.4	**-W15**	Blue	-M1	2	/7.4	PTO kabel
-X14	0	/7.4	**-W15**	Brown	-M1	1	/7.4	PTO kabel
-X19	0	/8.3	**-W16**	BK	-B3		/8.3	PNP Sensor cable top
-X18	0	/8.3	**-W16**	BN	-B3		/8.3	PNP Sensor cable top
-X20	0	/8.3	**-W16**	BU	-B3		/8.3	PNP Sensor cable top
-X22	0	/8.4	**-W17**	BK	-B4		/8.4	PNP Sensor cable JOG
-X21	0	/8.4	**-W17**	BN	-B4		/8.4	PNP Sensor cable JOG
-X23	0	/8.4	**-W17**	BU	-B4		/8.4	PNP Sensor cable JOG
-X25	0	/8.5	**-W18**	BK	-B5		/8.5	PNP Sensor cable bottom
-X24	0	/8.5	**-W18**	BN	-B5		/8.5	PNP Sensor cable bottom
-X26	0	/8.5	**-W18**	BU	-B5		/8.5	PNP Sensor cable bottom
-X28	0	/8.6	**-W19**	BK	-B6		/8.6	PNP Sensor cable bowl

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Kirkebjerg Søpark 6
DK-2605 Brøndby, Denmark
www.bearvarimixer.dk

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From			Cable		To		Type
-X27	0	/8.6	**-W19**	BN	-B6	/8.6	PNP Sensor cable bowl
-X29	0	/8.6	**-W19**	BU	-B6	/8.6	PNP Sensor cable bowl

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Kirkebjerg Søpark 6
DK-2605 Brøndby, Denmark
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4	Diagram			21-12-2017
	Diagram			
5	Diagram			21-12-2017
6	Diagram			21-12-2017
7	Diagram		01	21-12-2017
8	Diagram			21-12-2017
	Lists			
9	Parts List			21-12-2017
10	Component list			21-12-2017
11	Cable list			21-12-2017
16	Comments (log)			22-12-2017

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	Arrangement			
18	Component placement			22-12-2017
19	Cable connection			22-12-2017
	PCB diagram			
20	Diagram			22-12-2017
21	Diagram			28-12-2016

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DK-2605 Brøndby, Denmark
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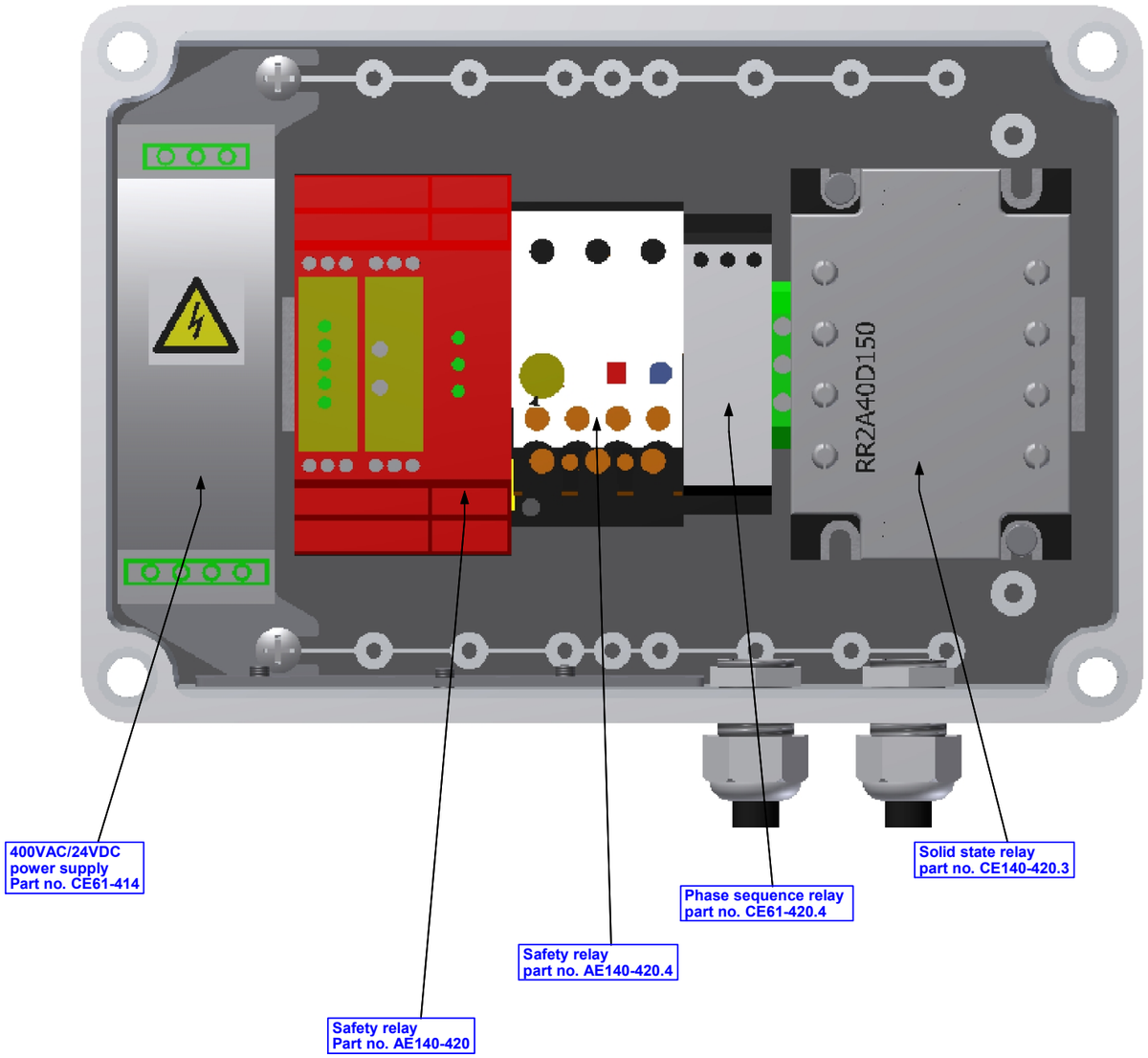
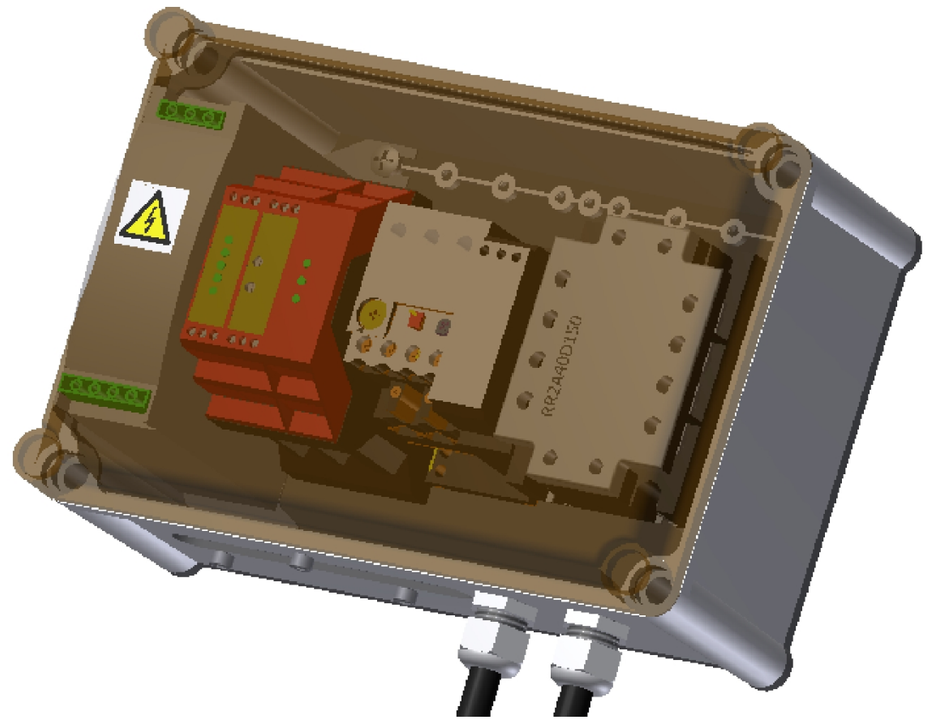
Arrangement





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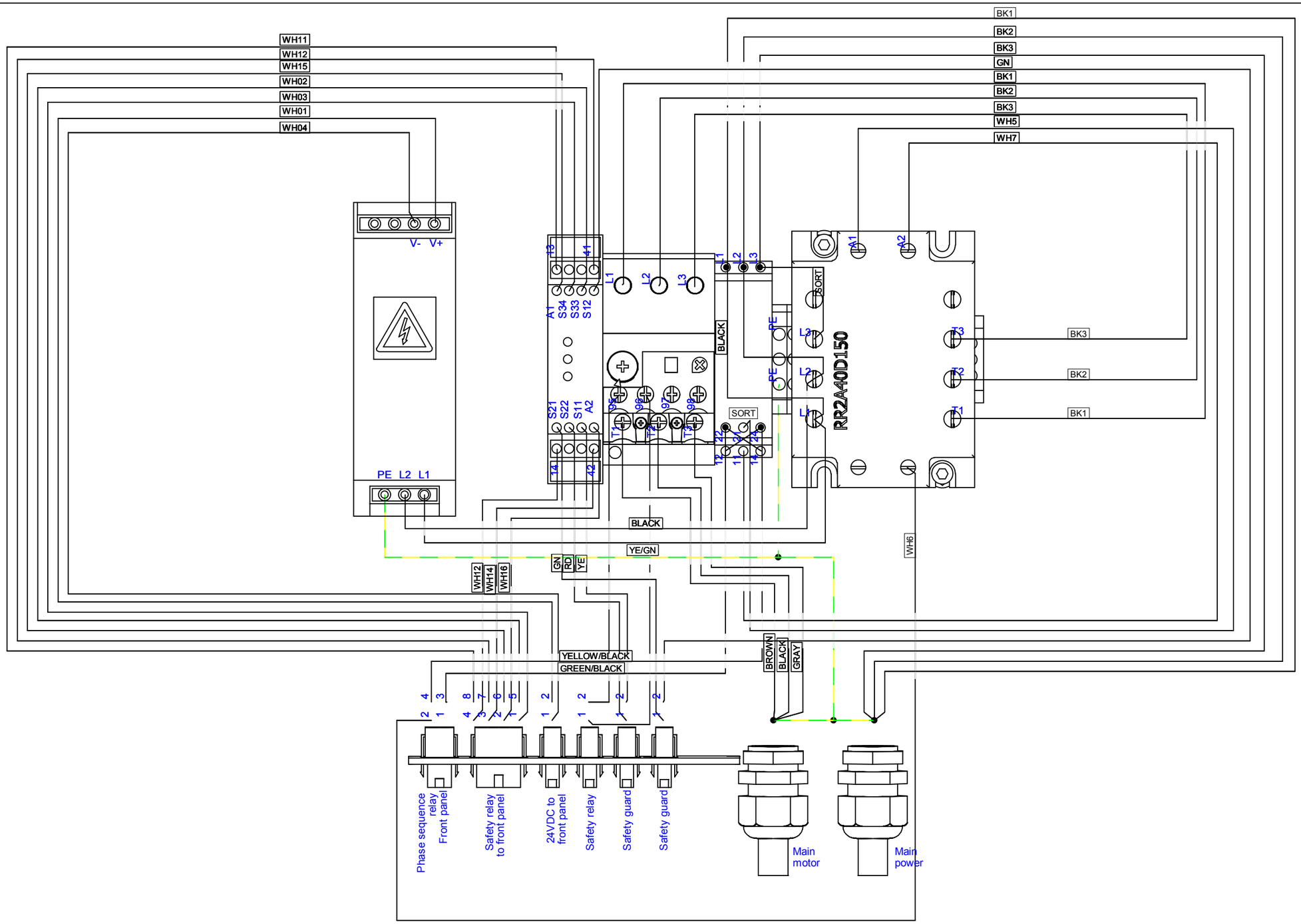

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