ERGO 140 VL-4
200-240VAC

PCSCHEMATIC Automation

A/S WODSCHOW & Co.
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www.bearvarimixer.dk

Projekttitel:	**ERGO 140 VL-4**	**Sagsnr.:**	**Projektrev.:**	**Side**	**1**
Kunde:				Målestok:	1:1
Sidetitel:	Diagram	Tegningsnr.:	Siderev.:	Forrige side:	
Filnavn:	35.140-10.02.04_external_use	Konstr. (projekt/side): CE / CE	Sidst udskrevet: 22-12-2017	Næste side:	2
Sideref.:		Godk. (dato/init):	Sidst rettet: 31-07-2017	Antal sider ialt:	25

ERGO 140 VL-4

Na

Quantity:

Navn	Type	Varenummer	Mængde

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Projekttitel:	**ERGO 140 VL-4**	**Sagsnr.:**		**Projektrev.:**		**Side**	**3**
Kunde:						Målestok:	1:1
Sidetitel:	Table of contents	Tegningsnr.:		Siderev.:		Forrige side:	2
Filnavn:	35.140-10.02.04_external_use	Konstr. (projekt/side):	CE / CE	Sidst udskrevet:	22-12-2017	Næste side:	4
Sideref.:		Godk. (dato/init):		Sidst rettet:	22-12-2017	Antal sider ialt:	25

Documentation Info

This electrical documentation fits ERGO 140
- ENG. version
- UL approval
- 200-240VAC

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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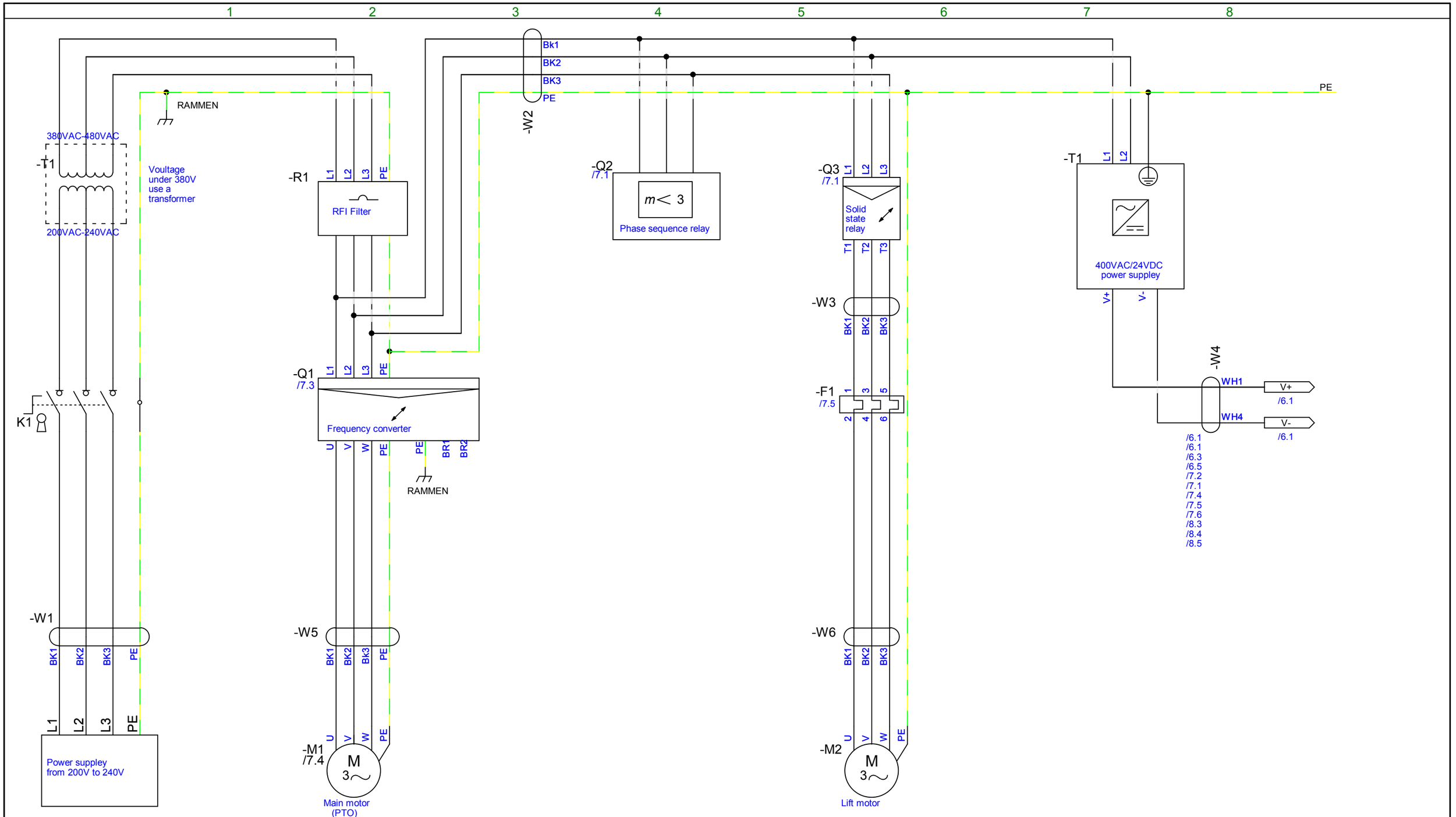
Diagrams



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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
WH4 WH1

-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

-X5

-W7
WH15 WH16 WH13 WH14 WH2 WH3 WH11 WH12

V-
/5.8

V+
/5.8

-K3
A1 A2 41 42 S33 S34 13 14

Safety relay

-X1

-W8
BK GN WH RD

S11 S22 S12 S21

-W7
YE RD

-W7
GN BK

-X2 -X3 -X4

-W9
BU BN BK GY

-W10
GY BK BN BU

-S1
1 2 1 2

Emergency switch

-S2
22 21 14 13

CE micro switch

-B1

-B2

Security magnet
Guard detection

Security magnet
Guard detection

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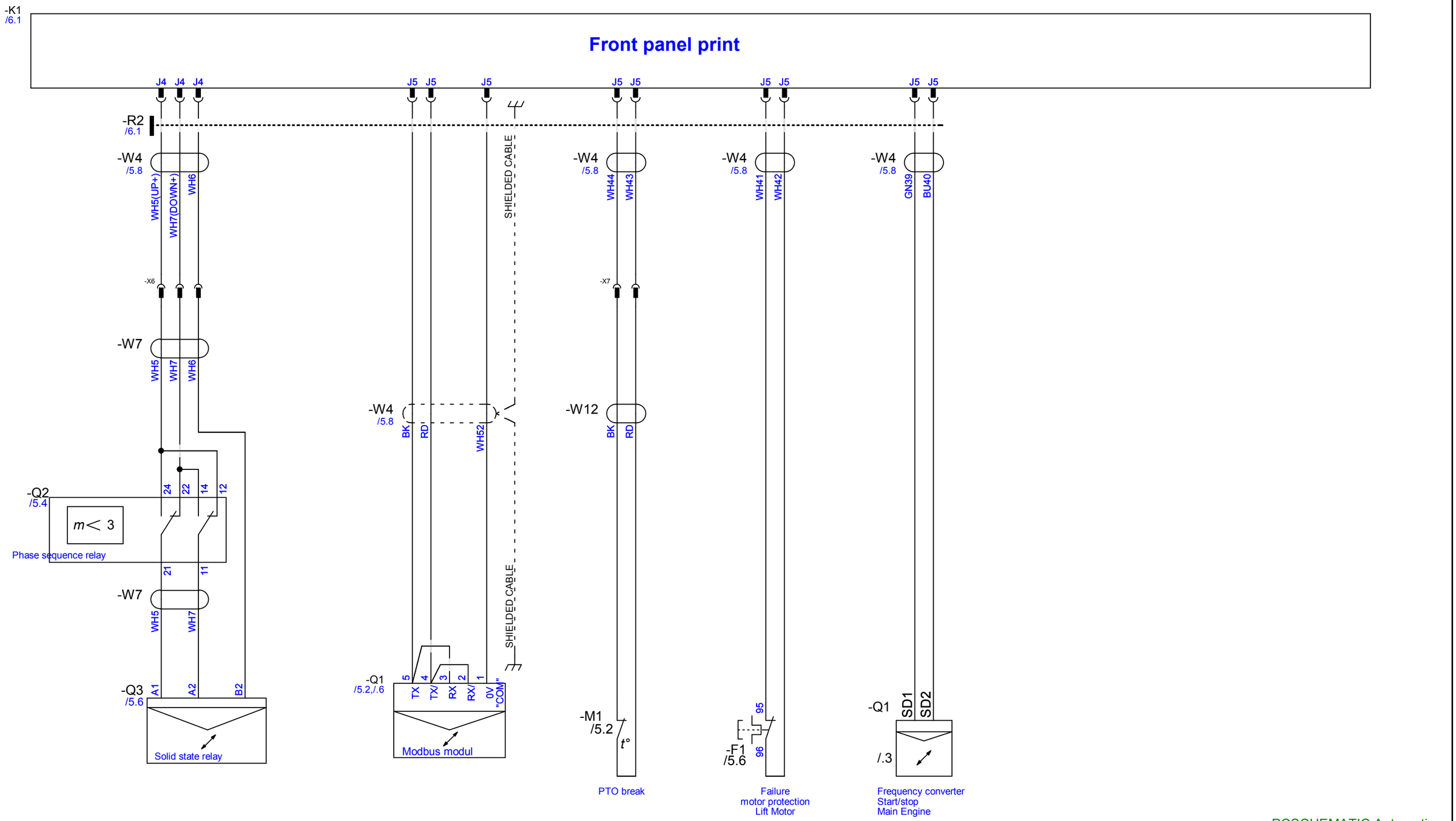

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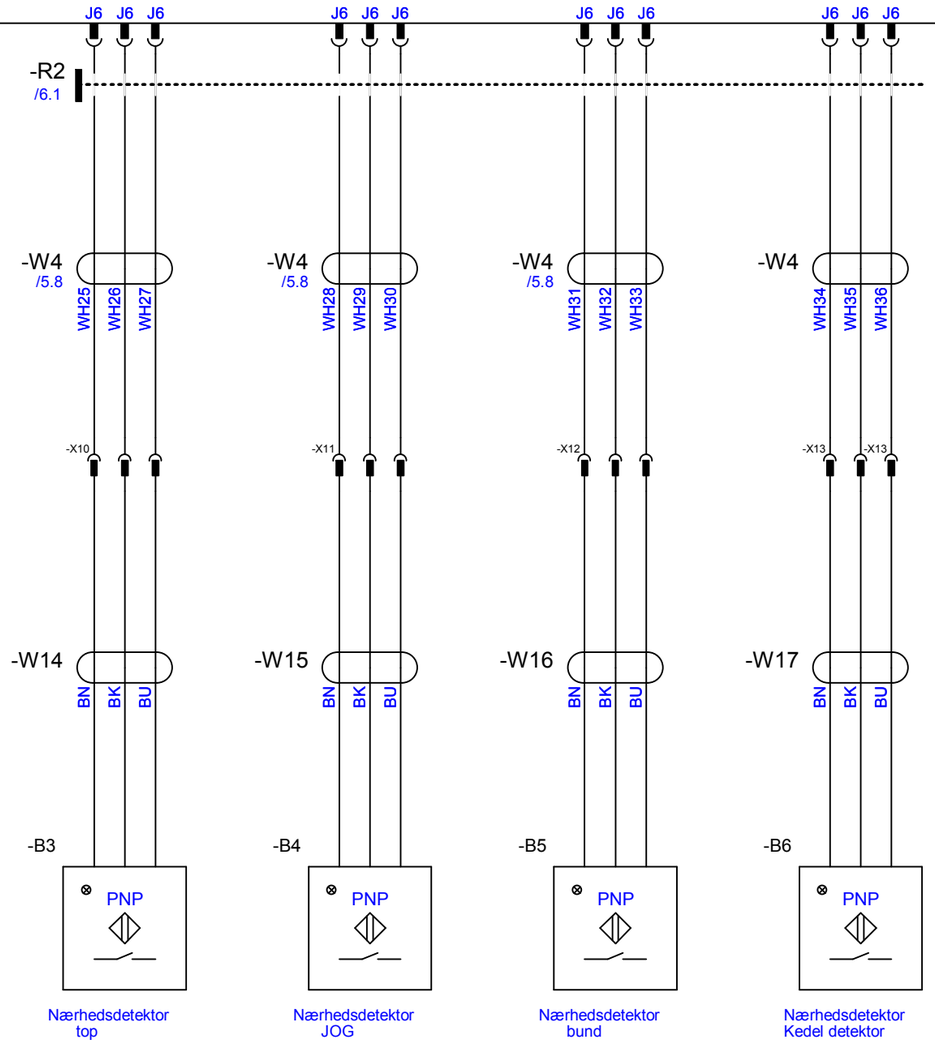
-K1
/6.1
/7.1

Front panel print



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Lists

Article no.	Type	Quantity
AE140-85	Main motor incl. PTO	1
AE140-86.1M	Magnet induktiv sensor	4
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
AE140-512	Safety magnetic senso	2
AE140-561	Print for VL-4 panel	1
AE140-601	Frequency converter	1
AE140-601.1	RFI Filter	1
AE140-601.8	Permanent magnet	1
CE61-173.1M	Micro switch CE	1
CE61-174	Emergencyswitch in panel	1
CE61-414	400VAV/24VDC	1
CE61-420.4	Phase sequence relay	1
WE140-86M	Lift motor incl. actuator	1
WE140-194.11M	Cable for controlbox, AWG20	-
WE140-194.14M	Power Cable	-
WE140-542.5	24VDC hovedkredskabel	-

Article no.	Type	Quantity

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Component	Article	Type	Description	Position
-B1	AE140-512	Safety magnetic senso		/6.6
-B2	AE140-512	Safety magnetic senso MAM-1822-6		/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	AE140-86.1M	Magnet induktiv sensor		/8.6
-F1	AE140-420.4	Safety relay		/5.6
-K1	AE140-561	Print for VL-4 panel		/6.1
-K3	AE140-420	Safey relay		/6.5
-M1	AE140-85	Main motor incl. PTO		/5.2
-M2	WE140-86M	Lift motor incl. actuator		/5.6
-Q1	AE140-601	Frequency converter		/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	Emergencyswitch in panel		/6.2
-S2	CE61-173.1M	Micro switch CE		/6.3
-T1	AE140-430	3P, transformer 400/230 10 KVA CE		/5.1
-T1	CE61-414	400VAV/24VDC		/5.7
-W1	WE140-194.14M	Power Cable		/5.1
-W4	WE140-542.5	24VDC hovedkredskabel		/5.8
-W7	WE140-194.11M	Cable for controlbox, AWG20		/6.5

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From			Cable		To			Type
	L1	/5.1	**-W1**	BK1	K1	2	/5.1	Power Cable
	L2	/5.1	**-W1**	BK2	K1	4	/5.1	Power Cable
	L3	/5.1	**-W1**	BK3	K1	6	/5.1	Power Cable
	PE	/5.1	**-W1**	PE	K1	8	/5.1	Power Cable
-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
-Q1	L1	/5.2	**-W2**	Bk1	-Q2	A2	/5.4	Cable drive to electrical box
-R1	8	/5.2	**-W2**	PE	-M2	PE	/5.6	Cable drive to electrical box
-Q3	T1	/5.5	**-W3**	BK1	-F1	1	/5.5	WIre
-Q3	T2	/5.6	**-W3**	BK2	-F1	3	/5.6	WIre
-Q3	T3	/5.6	**-W3**	BK3	-F1	5	/5.6	WIre
-K1	4	/7.3	**-W4**	BK	-Q1	5	/7.3	Afskærmet kabel
-K1	5	/7.3	**-W4**	RD	-Q1	4	/7.3	Afskærmet kabel
-K1	7	/7.3	**-W4**	WH52	-Q1	1	/7.3	Afskærmet kabel
			-W4					Afskærmet kabel
-K1	3	/6.1	**-W4**	BK17	-S1	1	/6.1	Middle conductor, emergency stop
-K1	5	/6.2	**-W4**	BU19	-S1	1	/6.2	Middle conductor, emergency stop
-K1	6	/6.2	**-W4**	GN20	-S1	2	/6.2	Middle conductor, emergency stop
-K1	4	/6.2	**-W4**	RD18	-S1	2	/6.1	Middle conductor, emergency stop
-K1	11	/7.6	**-W4**	BU40	-Q1	SD2	/7.6	Start/stop
-K1	10	/7.6	**-W4**	GN39	-Q1	SD1	/7.6	Start/stop
-T1	V+	/5.7	**-W4**	WH1	-K1	2	/6.1	24VDC hovedkredskabel
			-W4	WH4	-K1	1	/6.1	24VDC hovedkredskabel
-K1	15	/6.6	**-W4**	WH2	-X5	0	/6.6	Cable safety relay
-K1	16	/6.7	**-W4**	WH3	-X5	0	/6.7	Cable safety relay

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From			Cable		To			Type
-K1	17	/6.7	**-W4**	WH11	-X5	0	/6.7	Cable safety relay
-K1	18	/6.7	**-W4**	WH12	-X5	0	/6.7	Cable safety relay
-K1	13	/6.6	**-W4**	WH13	-X5	0	/6.6	Cable safety relay
-K1	14	/6.6	**-W4**	WH14	-X5	0	/6.6	Cable safety relay
-K1	11	/6.5	**-W4**	WH15	-X5	0	/6.5	Cable safety relay
-K1	12	/6.6	**-W4**	WH16	-X5	0	/6.6	Cable safety relay
-K1	1	/7.1	**-W4**	WH5(UP+)	-X6	0	/7.1	Cable for control lift
-K1	3	/7.1	**-W4**	WH6	-X6	0	/7.1	Cable for control lift
-K1	2	/7.1	**-W4**	WH7(DOWN+)	-X6	0	/7.1	Cable for control lift
-K1	7	/6.3	**-W4**	WH21	-X1	0	/6.3	Cable micro switch
-K1	8	/6.4	**-W4**	WH22	-X1	0	/6.4	Cable micro switch
-K1	9	/6.4	**-W4**	WH23	-X1	0	/6.4	Cable micro switch
-K1	10	/6.4	**-W4**	WH24	-X1	0	/6.4	Cable micro switch
-K1	10	/8.3	**-W4**	WH25	-X10	0	/8.3	Cable PNP top
-K1	3	/8.3	**-W4**	WH26	-X10	0	/8.3	Cable PNP top
-K1	2	/8.3	**-W4**	WH27	-X10	0	/8.3	Cable PNP top
-K1	5	/8.4	**-W4**	WH28	-X11	0	/8.4	Cable PNP JOG
-K1	4	/8.4	**-W4**	WH29	-X11	0	/8.4	Cable PNP JOG
-K1	7	/8.4	**-W4**	WH30	-X11	0	/8.4	Cable PNP JOG
-K1	6	/8.5	**-W4**	WH31	-X12	0	/8.5	Cable PNP buttom
-K1	9	/8.5	**-W4**	WH32	-X12	0	/8.5	Cable PNP buttom
-K1	8	/8.5	**-W4**	WH33	-X12	0	/8.5	Cable PNP buttom
-K1	1	/8.6	**-W4**	WH34	-X13	0	/8.6	Cable PNP Bowl
-K1	12	/8.6	**-W4**	WH35	-X13	0	/8.6	Cable PNP Bowl
-K1	11	/8.6	**-W4**	WH36	-X13	0	/8.6	Cable PNP Bowl
-K1	8	/7.5	**-W4**	WH41	-F1	95	/7.5	cable for thermo relay
-K1	9	/7.5	**-W4**	WH42	-F1	96	/7.5	cable for thermo relay
-K1	7	/7.4	**-W4**	WH43	-X7	0	/7.4	Cabel to PTO

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From			Cable		To			Type
-K1	6	/7.4	**-W4**	WH44	-X7	0	/7.4	Cabel to PTO
-Q1	U	/5.2	**-W5**	BK1	-M1	U	/5.2	Cable for main motor
-Q1	V	/5.2	**-W5**	BK2	-M1	V	/5.2	Cable for main motor
-Q1	W	/5.2	**-W5**	Bk3	-M1	W	/5.2	Cable for main motor
-Q1	PE	/5.2	**-W5**	PE	-M1	PE	/5.2	Cable for 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
-K3	S21	/6.7	**-W7**	BK	-X4	0	/6.7	Mellemleder
-K3	S12	/6.7	**-W7**	GN	-X4	0	/6.7	Mellemleder
-K3	S22	/6.6	**-W7**	RD	-X2	0	/6.6	Mellemleder
-K3	S11	/6.6	**-W7**	YE	-X2	0	/6.6	Mellemleder
-X5	0	/6.6	**-W7**	WH2	-K3	S33	/6.6	Cable for controlbox, AWG20
-X5	0	/6.7	**-W7**	WH3	-K3	S34	/6.7	Cable for controlbox, AWG20
-X5	0	/6.7	**-W7**	WH11	-K3	13	/6.7	Cable for controlbox, AWG20
-X5	0	/6.7	**-W7**	WH12	-K3	14	/6.7	Cable for controlbox, AWG20
-X5	0	/6.6	**-W7**	WH13	-K3	41	/6.6	Cable for controlbox, AWG20
-X5	0	/6.6	**-W7**	WH14	-K3	42	/6.6	Cable for controlbox, AWG20
-X5	0	/6.5	**-W7**	WH15	-K3	A1	/6.5	Cable for controlbox, AWG20
-X5	0	/6.6	**-W7**	WH16	-K3	A2	/6.6	Cable for controlbox, AWG20
-Q2	21	/7.1	**-W7**	WH5	-Q3	A1	/7.1	Mellemleder
-Q2	11	/7.1	**-W7**	WH7	-Q3	A2	/7.1	Mellemleder
-X6	0	/7.1	**-W7**	WH5	-Q2	12	/7.1	Mellemleder
-X6	0	/7.1	**-W7**	WH6	-Q3	B2	/7.1	Mellemleder
-X6	0	/7.1	**-W7**	WH7	-Q2	14	/7.1	Mellemleder

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From			Cable		To			Type
-X1	0	/6.3	**-W8**	BK	-S2	22	/6.3	Kabel micro switch
-X1	0	/6.4	**-W8**	GN	-S2	21	/6.3	Kabel micro switch
-X1	0	/6.4	**-W8**	RD	-S2	13	/6.4	Kabel micro switch
-X1	0	/6.4	**-W8**	WH	-S2	14	/6.4	Kabel micro switch
-X3	0	/6.6	**-W9**	BK	-B1	3	/6.6	Kabel til kedel detektion
-X2	0	/6.6	**-W9**	BN	-B1	2	/6.6	Kabel til kedel detektion
-X2	0	/6.6	**-W9**	BU	-B1	1	/6.6	Kabel til kedel detektion
-X3	0	/6.6	**-W9**	GY	-B1	4	/6.6	Kabel til kedel detektion
-X3	0	/6.6	**-W10**	BK	-B2	1	/6.7	Kabel til kedel detektion
-X4	0	/6.7	**-W10**	BN	-B2	4	/6.7	Kabel til kedel detektion
-X4	0	/6.7	**-W10**	BU	-B2	3	/6.7	Kabel til kedel detektion
-X3	0	/6.6	**-W10**	GY	-B2	2	/6.7	Kabel til kedel detektion
-X7	0	/7.4	**-W12**	BK	-M1	1	/7.4	PTO kabel
-X7	0	/7.4	**-W12**	RD	-M1	2	/7.4	PTO kabel
-X10	0	/8.3	**-W14**	BK	-B3		/8.3	PNP Sensor kabel top
-X10	0	/8.3	**-W14**	BN	-B3		/8.3	PNP Sensor kabel top
-X10	0	/8.3	**-W14**	BU	-B3		/8.3	PNP Sensor kabel top
-X11	0	/8.4	**-W15**	BK	-B4		/8.4	PNP Sensor kabel JOG
-X11	0	/8.4	**-W15**	BN	-B4		/8.4	PNP Sensor kabel JOG
-X11	0	/8.4	**-W15**	BU	-B4		/8.4	PNP Sensor kabel JOG
-X12	0	/8.5	**-W16**	BK	-B5		/8.5	PNP sensor kabel bund
-X12	0	/8.5	**-W16**	BN	-B5		/8.5	PNP sensor kabel bund

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From			Cable		To		Type
-X12	0	/8.5	**-W16**	BU	-B5	/8.5	PNP sensor kabel bund
-X13	0	/8.6	**-W17**	BK	-B6	/8.6	PNP Sensor kabel bowl
-X13	0	/8.6	**-W17**	BN	-B6	/8.6	PNP Sensor kabel bowl
-X13	0	/8.6	**-W17**	BU	-B6	/8.6	PNP Sensor kabel bowl

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19	Cable plan			22-12-2017
	Print diagram			
20	Diagram			22-12-2017
21	Diagram			31-07-2017

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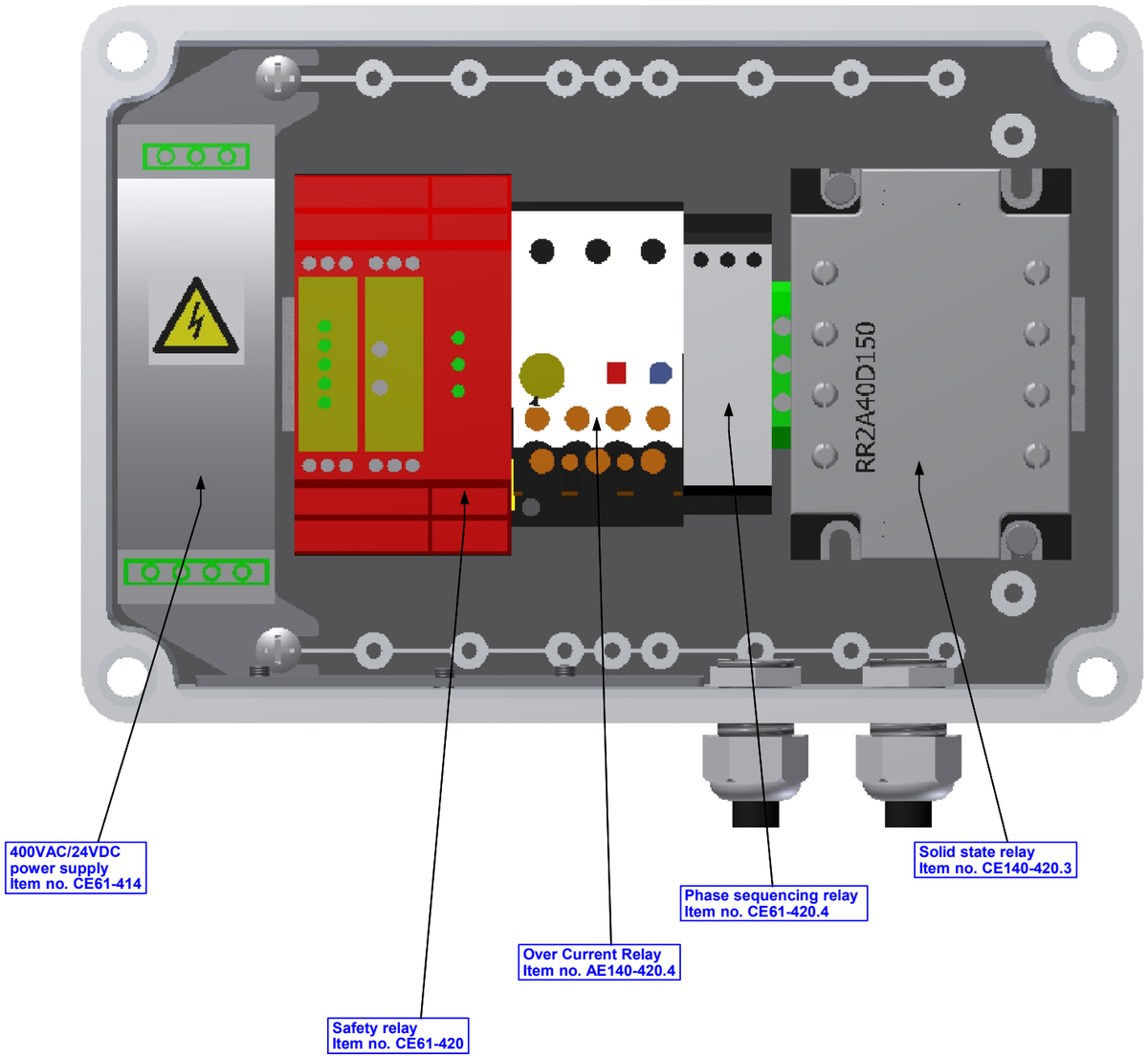
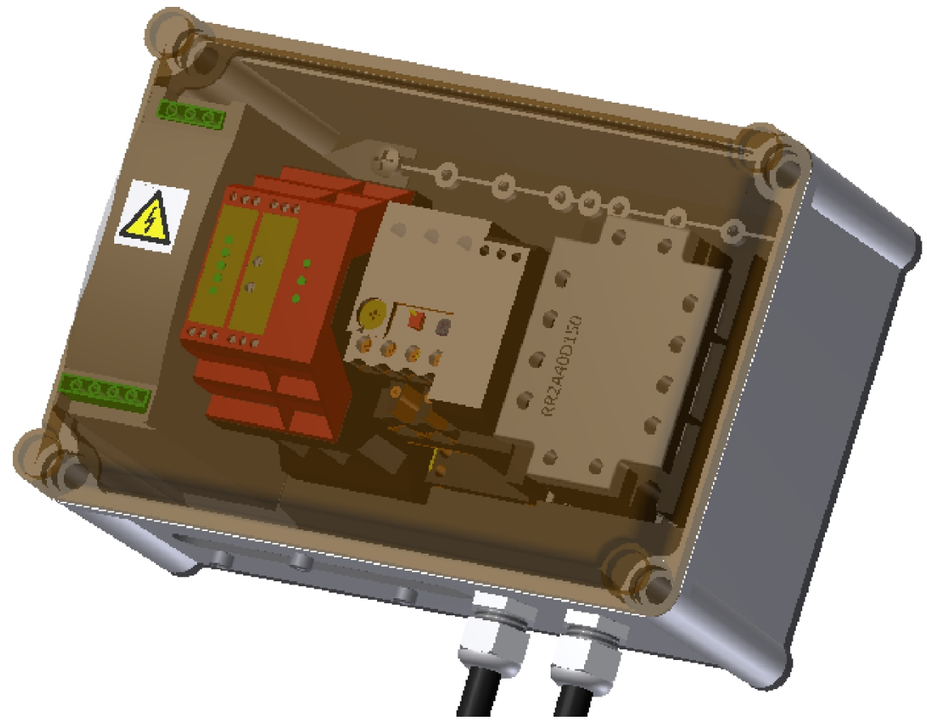
Arrangement





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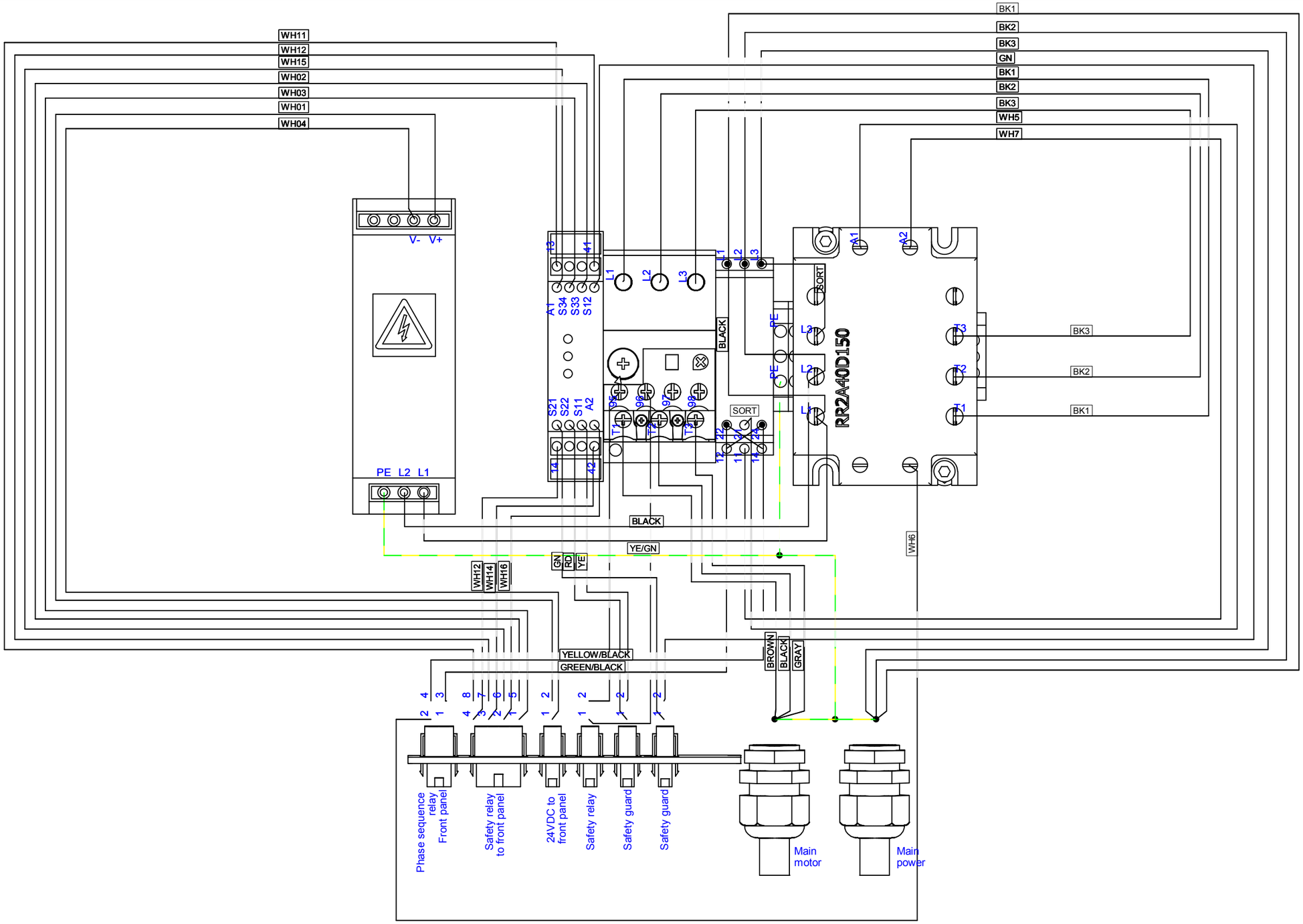

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